

20030123.qrp v02\_n809.qrl.20030123

Date: Thu, 23 Jan 2003 19:03:11 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2809

QRP-L Digest 2809

Topics covered in this issue include:

- 1) [145022] RE: Homebrew AM?  
by "N4LGH" <n4lgh@waveguide.us>
- 2) [145023] Part source  
by KD5NWA <KD5NWA@cbayona.com>
- 3) [145024] Imputs for Propagation Programs  
by Larry Cahoon <lejek@erols.com>
- 4) [145025] Four State QRP Group Wednesday Warble Tonight  
by "David Bixler" <qrp@netins.net>
- 5) [145026] Re: Sheet Metal Brake Drawing?  
by Steven Weber <kd1jv@moose.ncia.net>
- 6) [145027] OT: Current Sensing  
by "N4LGH" <n4lgh@waveguide.us>
- 7) [145028] Re: Fw: [QRP ARCI DOES NOT Forward Virus]  
by Ted Kell <tedkell@ev1.net>
- 8) [145029] QuickieLab  
by "Tom" <kf4yyd@adelphia.net>
- 9) [145030] NEQRP CW Net, Thursday, 23 Jan 03, 08:30 PM EST, 3.565 MHz  
by Chuck Ludinsky <cjl@mitre.org>
- 10) [145031] Fox - Winter Fox Hunt Teams Results.  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 11) [145032] Sale: K1-4  
by "Jay Bromley" <w5jay@alltel.net>
- 12) [145033] Argosy Noise Blanker  
by John Meade <jm416@optonline.net>
- 13) [145034] Fox - Winter Fox Hunt Teams Results.  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 14) [145035] K1 SN 01486 on the air! - Long  
by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 15) [145036] Pesky Texan Armadillo Chase  
by "N1LN" <n1ln@earthlink.net>
- 16) [145037] Sidekick update  
by "Jay Bromley" <w5jay@alltel.net>
- 17) [145038] Re: Pre-Amps  
by "Chris Trask" <chistrask@earthlink.net>
- 18) [145039] VE3DNL Marker/Generator  
by "Jay Bromley" <w5jay@alltel.net>
- 19) [145040] VFo Buffer Amp

- by "Richard Johnson" <richard\_johnson@credence.com>
- 20) [145041] Re: Fw: [QRP ARCI DOES NOT Forward Virus]  
by "Patrick Schwarz" <psschwarz@kellnet.com>
- 21) [145042] Re: Sheet Metal Brake Drawing?  
by "Tim, N9PUZ" <n9puz@arrl.net>
- 22) [145043] Re: Inputs for Propagation Programs  
by "Rod N0RC" <rod@n0rc.us>
- 23) [145044] Need part for the DDS Signal Generator Kit  
by "John McClain" <digi2@earthlink.net>
- 24) [145045] Re: Inputs for Propagation Programs  
by "Rod N0RC" <rod@n0rc.us>
- 25) [145046] Sheet Metal Brake  
by "John McClain" <digi2@earthlink.net>
- 26) [145047] Speaker reconing glue???
- by "Trevor Jacobs" <kg6cyn@earthlink.net>
- 27) [145048] Manhattan pads  
by "Mike T. Miller" <dude@sun.com>
- 28) [145049] Radio Shack Realistic DX-302  
by "Ray Goff" <radioham@gmx.co.uk>
- 29) [145050] RE: Weather - Was Re: REAL LIFE HAM RADIO  
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
- 30) [145051] Announcing New QRP FD Operation from Silicon Valley  
by "Dave Fifield" <dave@redhotradio.com>
- 31) [145052] Rainbow Tuners Again Available Right Now (and for a little while)  
by David Porter <aa3ur@comcast.net>
- 32) [145053] Re: Part source  
by KD5NWA <KD5NWA@cbayona.com>
- 33) [145054] STRATWARMS (AT LAST!!!)  
by "Rod N0RC" <rod@n0rc.us>
- 34) [145055] Re: Sheet Metal Brake Drawing?  
by "E. Roswell" <eroswell@monmouth.com>
- 35) [145056] Re: Pre-Amps  
by KD5NWA <KD5NWA@cbayona.com>
- 36) [145057] Re: Pre-Amps  
by "Chris Trask" <chistrask@earthlink.net>
- 37) [145058] RE: Current Sensing  
by "AI2Q" <ai2q@adelphia.net>
- 38) [145059] Re: OT: Current Sensing  
by David Hinerman <WD8CIV@worldnet.att.net>
- 39) [145060] Re: Pre-Amps  
by "Chris Trask" <chistrask@earthlink.net>
- 40) [145061] Re: Vfo Buffer Amp  
by David Hinerman <WD8CIV@worldnet.att.net>
- 41) [145062] Re: Manhattan pads  
by David Hinerman <WD8CIV@worldnet.att.net>
- 42) [145063] RE: Weather - Was Re: REAL LIFE HAM RADIO  
by David Hinerman <WD8CIV@worldnet.att.net>
- 43) [145064] [CONTEST] N2CQ QRP Contest Calendar - Jan 23-31

by "Ken Newman" <N2CQ@Dandy.Net>  
44) [145065] Building with old parts - Question?  
by Bob W7AVK <rsrolfne@atnet.net>  
45) [145066] [Parts] Tiny Trove II  
by "Brad Hernlem" <alihernlem@hotmail.com>  
46) [145067] Re: STRATWARMS (AT LAST!!!)  
by W2AGN <w2agn@w2agn.net>  
47) [145068] Re: Building with old parts - Question?  
by David Hinerman <WD8CIV@worldnet.att.net>  
48) [145069] Re: Building with old parts - Question?  
by Ted Buckley <tedb@aracnet.com>  
49) [145070] Re: Pre-Amps  
by KD5NWA <KD5NWA@cbayona.com>  
50) [145071] Re: [CQCLIST] STRATWARMS (AT LAST!!!)  
by "Prof. Arnaldo Coro Antich" <inforhc@ip.etcasa.cu>  
51) [145072] Re: Building with old parts - Question? P.S.  
by Ed Tanton <n4xy@earthlink.net>  
52) [145073] Re: Speaker reconing glue???  
by "Mike Yetsko" <myetsko@insydesw.com>  
53) [145074] Re: Building with old parts - Question? P.S.  
by Ed Tanton <n4xy@earthlink.net>  
54) [145075] Re: Building with old parts - Question?  
by "Mike Yetsko" <myetsko@insydesw.com>  
55) [145076] Re: [CQCLIST] STRATWARMS (AT LAST!!!)  
by W2AGN <w2agn@w2agn.net>  
56) [145077] Re: Speaker reconing glue???  
by Ed Tanton <n4xy@earthlink.net>  
57) [145078] Re: Manhattan pads  
by "Bob Tellefsen" <n6wg@earthlink.net>  
58) [145079] Trying 20m QRP WAS  
by "Franco, Nicholas J" <franco@bnl.gov>  
59) [145080] SMT CAP Offer  
by "brian" <brian@iquest.net>  
60) [145081] Re: Trying 20m QRP WAS  
by "Don Wines" <dwines@tyler.net>  
61) [145082] Info Source  
by Ed Tanton <n4xy@earthlink.net>  
62) [145083] How Would You Clean This Roller Inductor??  
by Mark Schoonover <schoon@amgt.com>  
63) [145084] PCB Printer  
by "James P. Osburn, P.E." <j.p.osburn@ieee.org>  
64) [145085] Re: How Would You Clean This Roller Inductor??  
by Jerry Lofstead <w3cde@bellsouth.net>  
65) [145086] Re: Weather - Was Re: REAL LIFE HAM RADIO  
by "Lee Mairs" <lmairs@direcway.com>  
66) [145087] FOX: Bad Conditions again!  
by "Karl F. Larsen" <k5di@zianet.com>  
67) [145088] Re: How Would You Clean This Roller Inductor??

by "George, W5YR" <w5yr@att.net>  
68) [145089] RE: Trying 20m QRP WAS  
by "Franco, Nicholas J" <franco@bnl.gov>  
69) [145090] Re: Sheet Metal Brake Drawing?  
by "Russ Hines" <wb8zcc@one.net>  
70) [145091] Re: Radio Shack Realistic DX-302  
by "Russ Hines" <wb8zcc@one.net>  
71) [145092] Re: [Parts] Tiny Trove II  
by "Brad Hernlem" <alihernlem@hotmail.com>  
72) [145093] Re: How Would You Clean This Roller Inductor??  
by "JB Crafts" <jbcraft@adelphia.net>  
73) [145094] Re: Info Source  
by "Brad Hernlem" <alihernlem@hotmail.com>  
74) [145095] RE: PCB Printer  
by "N4LGH" <n4lgh@waveguide.us>  
75) [145096] Re: Bad Conditions again!  
by "George, W5YR" <w5yr@att.net>  
76) [145097] RE: How Would You Clean This Roller Inductor??  
by "AI2Q" <ai2q@adelphia.net>

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Date: Wed, 22 Jan 2003 13:27:13 -0800  
From: "N4LGH" <n4lgh@waveguide.us>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [145022] RE: Homebrew AM?  
Message-ID: <GNEOLGDDJOPEALHJMKLCKEBDDGAA.n4lgh@waveguide.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

You guys should check out the excellent list called "Glow Bugs" or  
'Glowbugs' - they're into tube radios and they're quite advanced.

I don't recall how to subscribe but it is similar to this list. A google  
search should give good results.

Not bashing the thread, just relaying info on an excellent list for tube  
radio enthusiasts.

I've considered HB AM, but solid state.

Tracy N4LGH

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I have been following this thread as I too am interested in HB tube rigs.

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Date: Wed, 22 Jan 2003 15:47:43 -0600  
From: KD5NWA <KD5NWA@cbayona.com>  
To: Qrp-l@lehigh.edu  
Subject: [145023] Part source  
Message-ID: <5.2.0.9.0.20030122152352.00a82b50@mail.arkansasusa.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

This source for QRP parts has been mentioned before but I thought I mention that he has TN-2219A transistors 20 for \$1.00, these are 2N2222 in a T0237 case. This allows the transistor to dissipate a lot more power, it has metal tab in the case. He also has Fair-Rite 2843002402 binocular cores 20 for \$1.00 which are good for making broadband impedance matching transformers, MSA0786 wide frequency amps for \$.50 (DC to 2 Hz), and a lots of other goodies such as varicap diodes, SMT coils...etc. Brad is also very easy to deal with, and these prices are excellent.

>As usual, no personal interest, just thought some may like to know.

>Brad Thompson, Bookseller  
>P.O. Box 307, 202 Whitaker Rd.  
>Meriden, NH 03770-0307  
>voice: (603) 469-3351  
>fax: (603) 469-3917  
><mailto:brad.thompson@valley.net>

Cecil  
KD5NWA

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Date: Wed, 22 Jan 2003 21:54:09 +0000  
From: Larry Cahoon <lejek@erols.com>  
To: qrp-l@lehigh.edu  
Subject: [145024] Inputs for Propagation Programs  
Message-ID: <5.1.0.14.0.20030122213903.00bc9a10@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I use two of the propagation predication programs out there - ACE-HF and W6ELprop. Both are good programs and provide useful data. I even like having both. But a question has come up that I wanted to get a consensus

on. ACE-HF asks for the Sunspot Number. W6ELprop gives you a choice of the Sunspot number or the Solar Flux - it also want the current K index as well.

Now the problem. Checking todays numbers at <http://dx.qsl.net/propagation/> I get SFI = 134, K=17, A=4 and SSN = 130. I feed the SFI and K into W6ELprop and being a good program it tells me my inputs, but it also give me the SSN. But SSN is only 82.4. Now I don't expect the two number to track precisely as they do measure different things. I had been assuming the SFI was the better index to use. Now if I run W6ELprop using a SSN of 130 I get some big differences in the predictions. I might have picked the SSN if I could easily find the smoothed number rather than just todays number. But I haven't found that one readily available.

So my question is what numbers are people using - SSN, SFI and what is the source.

Thoughts????

Tnx and 73 de Larry.....WD3P in MD  
<http://www.wd3p.net/>

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Date: Wed, 22 Jan 2003 16:43:18 -0600  
From: "David Bixler" <qrp@netins.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>  
Subject: [145025] Four State QRP Group Wednesday Warble Tonight  
Message-ID: <000001c2c267\$a9901f90\$b277f8d8@XPCcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable

Hi Gang:

It's cold outside tonight but it's a good evening to stay inside and warble. The Four State QRP Group is having our weekly Wednesday Warble this evening at 9 PM central time. Look for us on or near 3580.5 KHz PSK-31 mode. All QRP'ers within range are invited to join our informal roundtable chat.

Propagation was pretty good last week with "DX" stations from Michigan and Arizona calling in with good signals.

See you tonight, 72 Dave

David Bixler                      W0CH  
Seneca, Missouri  
W0CH QRP Web Site:                <http://w0ch.com>  
Four State QRP Group:            <http://w0ch.com/fsqrp>  
Underdogs Fox Hunting Team:    <http://w0ch.com/underdogs/underdogs.htm>

QRP: Little Radios, Big Fun!=20

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Date: Wed, 22 Jan 2003 17:48:32 -0500  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: "Steve Lawrence" <Steve.Lawrence@ITWFEG.COM>  
Cc: qrp-1@lehigh.edu  
Subject: [145026] Re: Sheet Metal Brake Drawing?  
Message-ID: <3.0.6.32.20030122174832.007b4960@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>Steven,  
>I'm struggling with your verbal description of a sheet metal brake in the  
>newly arrived issue of QQ. Any chance a sketch or drawing is available?  
>  
>Steve, aa8af

I forgot Mike was going to put this in QQ. Since I'm sure others will have the same problem, I put a photo of it up on my web page. I also included a scan of another brake taken from an old book called "Everybody's Radio Manual", first published in 1934! Think I would have made this version had I remembered it being in the book sooner.

[http://www.qsl.net/kd1jb/SHEET\\_METAL\\_BREAK.HTM](http://www.qsl.net/kd1jb/SHEET_METAL_BREAK.HTM)

Yeah, I know, I used a creative spelling of brake.

72,  
Steve, KD1JV  
"Melt Solder"  
White Mountains of New Hampshire  
<http://www.qsl.net/kd1jv/>

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Date: Wed, 22 Jan 2003 16:10:52 -0800  
From: "N4LGH" <n4lgh@waveguide.us>

To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [145027] OT: Current Sensing  
Message-ID: <GNEOLGDJD0PEALHJMKLCOEBHDGAA.n4lgh@waveguide.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I want some things to happen when the transmitter turns on in a little jig I'm building, but I don't want to use RF sensing.

I'd like to use a current sensor to know when the amp is on, not just when it's putting out RF. I was thinking of using the A/D converter in the processor chip.

Have any of you guys compared currents with A/D converters? Know of any good tutorials? I'm new to micro controllers and A/D, have no clue what I'm doing. Any pointers would be great.

Tracy N4LGH

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Date: Wed, 22 Jan 2003 18:03:36 -0600  
From: Ted Kell <tedkell@ev1.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, nielsen@oz.net  
Subject: [145028] Re: Fw: [QRP ARCI DOES NOT Forward Virus]  
Message-ID: <PONHNO74YWGEPOKJPN3Y2VT0495WQ.3e2f3158@default>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

However, It IS HIGHLY likely that the sender is one of us. In this day and age it is extreemly important that each of us have anti-virus s/w in place and that we both use it and upgrade the definition files regularly. There are free packages that do the job as well as for pay ones like Norton. There is no reason not to have the s/w in place.

N3Ted

1/21/03 7:46:52 PM, Bob Nielsen <nielsen@oz.net> wrote:



>That is a "feature" of some of the newer virii. All you can infer is  
>that the infected machine probably had a file containing a message or  
>some other reference to qrp-arci.  
>  
>On Tue, Jan 21, 2003 at 04:59:52PM -0600, Don Foster wrote:  
>> Sorry, Mike and all. I guess I did mistate the forwarding address. Should  
>> have said it had the "appearance" of coming from QRP ARCI, but that was a  
>> bogus address for the sender. Please accept my apology. Err in haste, repent  
>> at leasure..as the saying goes.  
>>  
>> Don, K5KW  
>>  
>> ----- Original Message -----  
>> From: <mgoins@usa.net>  
>> To: <k5kw@geotec.net>  
>> Sent: Tuesday, January 21, 2003 2:18 PM  
>> Subject: Re: [QRP ARCI Forwards Virus]  
>>  
>>  
>>  
>> It was not forwarded by QRP-ARCI, the organization, as you implied with the  
>> header, but by someone using that as an address. Not the same, and I wish  
>> you'd clear that up. The organization did not send you a virus-infected  
>> email.  
>>  
>  
>

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Date: Wed, 22 Jan 2003 20:04:03 -0500  
From: "Tom" <kf4yyd@adelphia.net>  
To: "NoVAQRP" <NoVaQRP@topica.com>, "qrp-1" <qrp-1@lehigh.edu>  
Subject: [145029] QuickieLab  
Message-ID: <EIEBLEILGEEGMLHGH0AGOE0ACCAA.kf4yyd@adelphia.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

My quickieLab PCB arrived in the mail yesterday so I took it to work with me  
last night to look it over and read the documentation. The errata states in  
note two that pin 1 of J13 was inadvertently left ungrounded, while looking  
for that pin I also got to looking at the connection for VR1. The middle pin  
of the regulator should be grounded but it appears to me that the pad is

floating. If anyone else has one in hand could they look at it and tell me if I'm seeing that correctly or if not does that pin indeed connect to ground and by what means.

Thanks in advance,

de Tom kf4yyd

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Date: Wed, 22 Jan 2003 20:36:54 -0500  
From: Chuck Ludinsky <cjl@mitre.org>  
To: neqrp@jonal.net, qrp-1@lehigh.edu  
Subject: [145030] NEQRP CW Net, Thursday, 23 Jan 03, 08:30 PM EST, 3.565 MHz  
Message-ID: <3E2F4736.9000702@mitre.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii; format=flowed  
Content-Transfer-Encoding: 7bit

The New England QRP Club's 80M CW net, WQ1RP, will meet again on Thursday, 23 January 2003, at 8:30 PM EST (01:30Z, 24 Jan 03) on or near 3.565 MHz. All hams are welcome. Net control operator will be Chuck, K1CL, operating from Chelmsford, MA.

With excellent conditions, last week's net had a total of six participants:

WA8BXN	Mike	nr Cleveland, OH	589
W1PID	Jim	Sanbornton, NH	599
W1CFI	Paul	Falmouth, MA	589
N1VS	Vince	Winstead RI	599
WB1HBE	John	Chelmsford, MA	599
K1CL	Chuck	Chelmsford, MA	net op

Thanks to everyone for QNI'ing. Hope to hear you all again this week.

72 DE K1CL,  
Chuck

-----  
Date: Wed, 22 Jan 2003 19:59:46 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Low Power Group <qrp-1@LeHigh.EDU>

Subject: [145031] Fox - Winter Fox Hunt Teams Results.  
Message-ID: <Pine.LNX.4.33.0301221949300.18922-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt # 21 - N1FN -

Burbank Wrecking Crew - 68

Michael - K6MMC \*  
Todd - AG0T \* Clean  
Don - KC2CK \* Sweep  
Woody - WD9F \*  
Trev - KG6CYN \*

Cheeseheads - 77

Jerry - N9AW \*  
Jim - WA9TZE \* Clean  
Lon - W9XU \* Sweep  
Rick - NK9G \*  
Glenn - WE9K \*

NE-TX Tornados - 96

Chuck - W5USJ \*  
Bill - K5JHP \* Clean  
Don - K5DW \* Sweep  
Doc - W5TB \*  
George - W5YR \*

p-Shooters - 43

Chuck - K7Q0  
Gary - NQ7T  
Jim - KC1FB \*  
Wayne - W5KDJ \*  
Tony - KB9YIG \*

Raiders of the Lost RF - 76

Dan - VE6EX \*  
Earl - VA6RF \* Clean  
Fred - VE3FAL \* Sweep  
Robert - VE6JAZ \*  
Bruce - VE5RC \*

Swamp Rats - 91

Larry - N2WW \*  
ET - N1FN \* Clean  
Paul - K4FB \* Sweep  
Doc - K0EVZ \*  
Tom - N1TP \*

K1 K9s - 59

Lloyd - K3ESE \*  
John - K8HJ \*  
Ralph - KD1R  
Joe - W2RBA \*  
Alan - N3BJ \*

Cajun Thunder - 73

Wayne - K5E0A \*  
Jim - N5IB \*  
Vern - AA50 \*  
Wayne - N5YFC \*  
Tom - AC5JH

Great Lakers - 48

Mark - K2Q0 \*  
Tom - KV2X \*  
Al - K2ZN \*

Underdogs - 86

Dan - N4R0A \*  
Dave - W0CH \* Clean  
Ron - KI0II \* Sweep

Bill - K2TER  
Jeff - VA3JFF \*

Randy - K7TQ \*  
Art - KB7WW \*

Aluminum Kings - 69

Dust Devils - 66

Bob - N4BP \*  
Jim - N0UR  
Al - K0FRP \*  
Pat - K0PC  
Todd - N9NE \*

George - KR5C \*  
Martin - N6LIF  
Eric - NM5M  
Dale - K5SR \*  
Lew - N5ZE \*

Loco-motives - 44

Frank - K2PQ \*  
Jack - K5FSE \*  
Jason - N8XE  
Mike - VA6MJT  
Wayne - K9DI

..please send any changes and/or corrections directly to me...thank  
you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Wed, 22 Jan 2003 20:03:53 -0600  
From: "Jay Bromley" <w5jay@alltel.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [145032] Sale: K1-4  
Message-ID: <000f01c2c283\$ae74f500\$499b66a6@jay>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,

I have the following for sale:

Elecraft K1-4 transciever with the following options:

KAT1 internal tuner (with firmware upgrade)  
KTS1 wide range tilt stand  
KBT1 internal battery kit (un-built )  
Speaker grill.

The unit is like new and works perfectly.  
I will ship to you door for \$475.

Many thanks and 73 de jay..

Cell phone # 479-651-7012 anytime.

-----  
Date: Wed, 22 Jan 2003 21:15:13 -0500  
From: John Meade <jm416@optonline.net>  
To: qrp-l@Lehigh.EDU  
Subject: [145033] Argosy Noise Blanker  
Message-ID: <000501c2c285\$4540d1b0\$d5102f18@DH89Q211>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

WTB - NB for the Argosy - 223B

Thanks.

72,

John W2XS

-----  
Date: Wed, 22 Jan 2003 20:40:15 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,  
Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [145034] Fox - Winter Fox Hunt Teams Results.  
Message-ID: <Pine.LNX.4.33.0301222032210.22098-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hunt # 22 - N0UR -

Burbank Wrecking Crew - 71

Michael - K6MMC  
Todd - AG0T \*  
Don - KC2CK \*  
Woody - WD9F \*  
Trev - KG6CYN

Cheeseheads - 81

Jerry - N9AW \*  
Jim - WA9TZE \*  
Lon - W9XU  
Rick - NK9G \*  
Glenn - WE9K \*

NE-TX Tornados - 101

Chuck - W5USJ \*  
Bill - K5JHP \* Clean  
Don - K5DW \* Sweep  
Doc - W5TB \*  
George - W5YR \*

p-Shooters - 46

Chuck - K7Q0 \*  
Gary - NQ7T  
Jim - KC1FB \*  
Wayne - W5KDJ \*  
Tony - KB9YIG

Raiders of the Lost RF - 80

Dan - VE6EX \*  
Earl - VA6RF \*  
Fred - VE3FAL  
Robert - VE6JAZ \*  
Bruce - VE5RC \*

Swamp Rats - 96

Larry - N2WW \*  
ET - N1FN \* Clean  
Paul - K4FB \* Sweep  
Doc - K0EVZ \*  
Tom - N1TP \*

K1 K9s - 62

Lloyd - K3ESE \*  
John - K8HJ  
Ralph - KD1R  
Joe - W2RBA \*  
Alan - N3BJ \*

Cajun Thunder - 77

Wayne - K5E0A \*  
Jim - N5IB \*  
Vern - AA50 \*  
Wayne - N5YFC  
Tom - AC5JH \*

Great Lakers - 49

Mark - K2Q0  
Tom - KV2X  
Al - K2ZN \*  
Bill - K2TER  
Jeff - VA3JFF

Underdogs - 90

Dan - N4ROA \*  
Dave - W0CH \* Clean  
Ron - KI0II \* Sweep  
Randy - K7TQ \*  
Art - KB7WW \*

Aluminum Kings - 74

Dust Devils - 70

Bob - N4BP *	George - KR5C *
Jim - N0UR *    Clean	Martin - N6LIF
Al - K0FRP *    Sweep	Eric - NM5M *
Pat - K0PC *	Dale - K5SR *
Todd - N9NE *	Lew - N5ZE *

Loco-motives - 46

Frank - K2PQ \*  
Jack - K5FSE \*  
Jason - N8XE  
Mike - VA6MJT  
Wayne - K9DI

..please send any changes and/or corrections directly to me...thank you...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -  
- VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

-----  
Date: Wed, 22 Jan 2003 18:46:05 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145035] K1 SN 01486 on the air! - Long  
Message-ID: <001501c2c289\$93c710c0\$bc33b3d1@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey Gang,

After playing around with Paul WA9PWP's K1 in the Hotel last week, I decided to get one. During my trip back from WI I had a 3 hour layover in Denver, so I gave Elecraft a call and ordered up a 4-band K1 with internal battery pack and ATU. It'd been a while since I put a kit

together (at least on with this many components), so thought it'd be fun. A lot of times when I put a kit together, I just skim through the manual, grab the parts list and the PCB and start stuffing components. This time I thought I'd actually RTFM and go by it's instructions. I have to say that this is a very well designed kit! For those of you out there that are fairly new to kit building, I don't think that you'd have a lot of trouble. Heck, you can even order pre-wound toroids if you want, although I wound my own (I never have thought that winding toroids was that big of a deal, just time consuming). I also ordered a roll of Kester 44 62/36/02 (.025) solder from Digi-Key, as I was almost out! This is sacrilegious for a home brewer to be out of solder! I hadn't had to order solder for the last 4 years as I had acquired a huge roll of this stuff, but alas it was almost gone. So, as of Monday morning, I had everything in place to start building the kit.

As I stated earlier, the K1 manual is excellent! A Novice builder should have no problem with this kit. Mine went together with very little trouble. The only thing that gave me a bit of trouble was 40 meter alignment of the receiver. I wasn't hearing any signals??? Turns out that when I mounted the pre-mix crystal (on the filter board) that I must have gotten some solder to short the ungrounded pin to case. This is all I could think of as the cause, as when I removed the XTAL and replaced another (not the same frequency) I could see that the SA602 was oscillating just fine. So, I replaced the original loosely in the board and it worked! This time when I soldered it, I was VERY light with the solder. The only other thing that I've seen do this, is that sometimes when you insert a resistor or cap into a board and the spacing is a little tight, you can see a very small amount of the leads being shaved off by the pad. Don't think that this was the case though, as the XTAL fit just fine. BTW there is a good solder mask under the XTAL, so I don't think that it could have shorted to the PCB traces. Anyway, the rest of the kit went together great. After I finished up on the basic 4 band unit, I put the ATU and internal batteries together and installed them. The alignment procedure was fairly straight forward and took maybe 45 minutes to complete (including a warm up time). I finished the kit about 2:30 AM this morning. It was too late for a contact, so I went to bed.

This morning I got up and started to clean up a bit before going into the office. Oh yea, forgot to mention, hardly anyone in the office this week as we busted butt back in WI to make our January 15th deadline. They're taking it easy on us this week ;- ) I decided to turn on the K1 and listen around on 20 meters for a bit. I heard Larry KJ7N calling CQ and decided to give him a call. We QSO'd for a few min, but I had to get to work around Noon for a meeting. Just as I was walking out the door to work, I thought to myself that it'd be fun to listen to the rig in the office, so I grabbed the K1 and palm paddles (Thanks Marshall!) and headed out to work. Well, it was a very light day as only 3 of us were



in, so I decided to play a little radio. Down in the workshop, I found a old spool of wire and a BNC connector with about 1" of coax sticking out of it. In my office I took ~20' of wire and ran it diagonally from one corner of the ceiling to the other by my desk, and also laid about 20' on the floor as a counterpoise. Now, in all reality, I was not expecting to get on the air with this setup, but thought that having it on and listening would be fun. Well, the 15 meter band seemed in OK shape, so I decided to see if it'd tune up. Well, what do you know, that little ATU matched it 1:1!!! I though that this might be a nice time to play with the message memories, so I recorded a CQ message and let it go a few times with the rig dialed in at 2 watts. Dog gone it if I didn't get another station (Gary - sorry, left the call sign at work) in WA!!! We QSO's for a bit, but the band changed on us and signals faded.

This rig is going to make a great little portable rig! If you have the opportunity to play with one, give it a whirl. BTW I verified the RX current draw at 55 mA! Sure beats having to lug a tuner and battery pack along for the trip as well. Anyway, I'm going to use it in the FOX Hunt on Thursday and we'll see how it does. So far, I really like the filter setup. The keying is great! No thump or relay chatter. Kudos to Wayne and Eric on a nice rig design! I may take it portable this weekend for a trial run, so I'll let you guys know. Take care...

73's Trev KG6CYN

<http://home.earthlink.net/~kg6cyn>

<http://www.qsl.net/kg6cyn>

-----  
Date: Wed, 22 Jan 2003 21:08:13 -0600  
From: "N1LN" <n1ln@earthlink.net>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [145036] Pesky Texan Armadillo Chase  
Message-ID: <002e01c2c28c\$ac04c940\$9506fea9@im02>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello all you Armadillo Chasers - - - it is almost that time again.

Once again this year NARS ( Northwest Amateur Radio Society ) and K5PTC (

Pesky Texan Contest Club) will be sponsoring the 3rd annual Pesky Texan Armadillo Chase.

All the information is posted on our web site at: <http://www.w5nc.org> then click on the Armadillo link in the middle of the page:  
<http://www.w5nc.org/ptac/default.htm>

If you want to read on for more details:

Date/Time: Central Time: 20:00 - 22:00 Wednesday Night - March 12  
UTC Time: 02:00 - 04:00 Thursday morning - March 13  
Frequency: 7.025 - 7.070 (approx)  
Mode: CW  
Power: QRP ( 5w or less)  
Exchange: <call><RST><State><Name><Power>

Rule Change for 2003 - lets keep it fair for all time zones:

To make the event fair to our "left coast" participants that suffer from a late SUN DOWN, compared to the "right coast" participants, the order of finish of the hounds will be based on the SHORTEST TIME to work "ALL" Armadillos. This means you can start anytime during the 2 hour event and your entry time starts whey you make your first Armadillo QSO and ends when you work them all. Sound easy? Well, you can listen around the band, make a band map of where we all are, get ready to do a quick 20 Q's..... only to find out that we occasionally QSY and your band map is no good.

So - not so easy.

The times will be verified by the Armadillo logs.

We will post the calls / names of the Armadillos on this reflector and on our web site in the coming weeks.

The final results of both the Hounds (Chasers) and the Armadillos will be posted on our web site.

Keep Wednesday night - March 12th open - come have some fun ! ! !

72,  
Bruce - N1LN  
( K5PTC - Pesky Texan Contest Club )

-----  
Date: Wed, 22 Jan 2003 22:25:37 -0600  
From: "Jay Bromley" <[w5jay@alltel.net](mailto:w5jay@alltel.net)>  
To: <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>

Subject: [145037] Sidekick update  
Message-ID: <005101c2c297\$7b91d400\$499b66a6@jay>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,  
Just a short update on how the SideKick receiver kits are doing. To refresh your memory this is a Manhattan style receiver kit. It is a copy of the receiver found in the world famous Dave Benson's SWL-40a transceiver kit. See it at: <http://www.smallwonderlabs.com/>

The kit layout is the handy work of Frank Roberts, VE3FA0. I want to publicly thank Frank for all his hard work. Kitting was done by ArkieCon's own MC--- Mr. Doug Hendricks. Thank you Biggggg Daddy Doug!

We are doing a limited run of three hundred kits. The first two hundred kits are history. As I write there are only 80 kits left, so if you want one here is all the dope you need. Go to:  
<http://www.cox-internet.com/w5jay/kits/kits.htm>

I just sent out a blind e-mail to those that reserved a kit, but so far we haven't received their check, this is a reminder if you haven't sent in your check please do so soon. At the end of the run these reserved kits will be assigned to someone else.

Don't delay these kits will go very fast!!

This is a fund raiser for ArkieCon. Information on the 2003 ArkieCon will be posted very soon.

Many thanks and 73 w5jay..

-----  
Date: Wed, 22 Jan 2003 21:29:18 -0700  
From: "Chris Trask" <chrisrask@earthlink.net>  
To: <sam.dellit@bigpond.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145038] Re: Pre-Amps  
Message-ID: <00e601c2c297\$ffb509a0\$07883a41@ctrask>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

On Tuesday, January 21, 2003 11:39 PM, Sam Dellit from downunder wrote:

>  
> (1) what are the design criteria for the augmentation transformer  
> in terms of primary/secondary reactance  
>

See the papers on my web page. They describe the results of using various turns ratios. 1:2 and 1:3 work equally well. Keep the number of turns as few as possible to keep any leakage inductance and losses at a minimum. Use a low-loss ferrite core material for HF and below, powdered iron for VHF and above.

>  
> (2) the mrf587 transistor had a good reputation for hi IP3 performance  
> in the norton noiseless feedback circuit, biased at about 90ma  
>  
> do you have any experience with this device in the augmented  
> feedback circuits? specifically, the device has an imbedded  
> emitter ballast resistor which may impact on the functioning  
> of the augmenting feedback circuit  
>  
> if the ballast resistor is a problem, are there alternative devices  
> available without the resistor?  
>

Devices with imbedded emitter ballast resistors are really not suitable for Norton amplifiers. Any transistor using 90mA bias current is going to give exceptional IMD performance, like the 2N5109 circuits that are floating around. The purpose of augmentation in small signal amplifiers is to get good IMD performance at low current levels where the NF performance is better. In power amplifiers, the purpose is to get peak power efficiencies in the upper 90's.

>  
> (3) which are the best choices for low noise figure transistors  
> readily available today; in the early 80s the mrf571, then the mrf581  
> lead the pack.  
>

There are plenty of good low NF transistors available. I prefer the NE681XX as it's NF is best at relatively high (10mA) collector currents, which will give good IMD and NF performance simultaneously.

>  
> (4) does the augmentation concept have any application to fet circuits  
> eg the amrad active antenna using the crystalonics CP666?

There are very few, if any, FETs that are stable in a common gate configuration without some sort of degeneration, so I don't bother to evaluate any. I have yet to see a Norton amplifier using a FET, and that's probably the reason why, along with the fact that the source resistance is much higher than the emitter resistance of a bipolar device.

```

    / .-----'
    /      What's all this          \
    / extinct stuff, anyhow?        /
    \ -----' -----'            \
-_/
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     \   -   \   .   \   .
     \   /       \       \
     \   "         \         \
     \               \         \
     .               ( ) \
     '-| )_-- :. \
         | | | | \ '.
         c__; c__; '...'>.___ h

```

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Email: [christrask@earthlink.net](mailto:christrask@earthlink.net)  
<http://www.home.earthlink.net/~christrask>

Date: Wed, 22 Jan 2003 22:40:05 -0600  
From: "Jay Bromley" <w5jay@alltel.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [145039] VE3DNL Marker/Generator  
Message-ID: <005701c2c299\$80ed10c0\$499b66a6@jay>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang again,  
I can always tell when the article, "Which Kit to Build" by Doug Hendricks, hits somewhere on the web. We get a ton of requests asking if the VE3DNL Marker/Generator is still available from the Fort Smith QRP Group. Yes we still have them. For more information on the VE3DNL Marker/Generator go to: <http://www.cox-internet.com/w5jay/kits/kits.htm>

The kit was updated with a new NorCal like board about a year ago. This update was the work of NorCal's Dave Fifield and Doug Hendricks. Thank you guys!! See the new board at:  
<http://www.fix.net/~jparkner/norcal/marker/marker.htm>

The reason we continue to produce this fine kit is to help first time builders get started into the art of kit building.

Have fun and 73 de w5jay..

-----  
Date: Wed, 22 Jan 2003 20:52:53 -0800  
From: "Richard Johnson" <richard\_johnson@credence.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145040] VFO Buffer Amp  
Message-ID: <3E2F7525.1F294B3D@credence.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

In the 2001 Handbook on page 17.74 is the schematic of a VFO used with the biaural DC receiver.  
The design uses a common source FET buffer with a transformer which i don't understand. I thought it was a balun of some sorts but i can not find an example of that hookup. I have looked.

Any insight into what is going on with that trifilar matching transformer would be welcome.

Cheers,  
Rich

-----  
Date: Thu, 23 Jan 2003 00:01:14 -0500  
From: "Patrick Schwarz" <psschwarz@kellnet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [145041] Re: Fw: [QRP ARCI DOES NOT Forward Virus]  
Message-ID: <018701c2c29c\$77220480\$4e3dfea9@patrick>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> However, It IS HIGHLY likely that the sender is one of us. In this day  
and age it is  
> extremely important that each of us have anti-virus s/w in place and that  
we both use it  
> and upgrade the definition files regularly. There are free packages that  
do the job as  
> well as for pay ones like Norton. There is no reason not to have the s/w  
in place.

Double protection when an ISP scans all incoming mail with Norton already...

Patrick...KB8RTZ...

-----  
Date: Wed, 22 Jan 2003 23:41:59 -0600  
From: "Tim, N9PUZ" <n9puz@arrl.net>  
To: <kd1jv@moose.ncia.net>,  
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [145042] Re: Sheet Metal Brake Drawing?  
Message-ID: <200301230639.AAA24554@gallium.eosinc.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable

On Wed, 22 Jan 2003 17:48:32 -0500, Steven Weber wrote:

>[http://www.qsl.net/kd1jb/SHEET\\_METAL\\_BREAK.HTM](http://www.qsl.net/kd1jb/SHEET_METAL_BREAK.HTM)

.. and check here for the pics at Steve's REAL web site...

[http://www.qsl.net/kd1jv/SHEET\\_METAL\\_BREAK.HTM](http://www.qsl.net/kd1jv/SHEET_METAL_BREAK.HTM)

Tim, N9PUZ  
<http://www.qsl.net/n9puz>

-----  
Date: Wed, 22 Jan 2003 22:39:21 -0700  
From: "Rod N0RC" <rod@n0rc.us>  
To: <lejek@erols.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145043] Re: Inputs for Propagation Programs

Message-ID: <005101c2c2a1\$c8333ec0\$6601a8c0@BIGDOG>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Larry,

I'm an ACE-HF guy but not a W6ELprop user. ACE-HF requires a "Smoothed Sunspot Number", SSN. Is it possible that the number available from <http://dx.qsl.net/propagation/> is just the current Sun Spot Number, SSN. Confusing huh? ;-)

Note to all readers: Smoothed Sunspot Numbers are calculated from Sun Spot Numbers, think of it as a "long term average" (oversimplified). For more info on Smoothed Sunspot Numbers see: <http://www.ngdc.noaa.gov/stp/IONO/sunspot.html>

I pick Smoothed Sun Spot numbers of the ACE-HF website and/or the hfradio.org site.

When I input the Smoothed Sunspot Number "82.4" into ACE-HF, it computes an equivalent SFI of 130 reasonably close to 134 (below).

Hope that helps.

73, Rod N0RC

----- Original Message -----

From: "Larry Cahoon" <lejek@erols.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Wednesday, January 22, 2003 2:54 PM  
Subject: Inputs for Propagation Programs

> Now the problem. Checking today's numbers at  
<http://dx.qsl.net/propagation/>  
> I get SFI = 134, K=17, A=4 and SSN = 130. I feed the SFI and K into  
> W6ELprop and being a good program it tells me my inputs, but it also  
give  
> me the SSN. But SSN is only 82.4. Now I don't expect the two  
number to  
> track precisely as they do measure different things. I had been  
assuming  
>



-----  
Date: Wed, 22 Jan 2003 23:09:48 -0700  
From: "John McClain" <digi2@earthlink.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [145044] Need part for the DDS Signal Generator Kit  
Message-ID: <000d01c2c2a6\$09336cc0\$6401a8c0@Laptop2>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I received the last part last week for the DDS Sig Generator last week only to find out that I had not ordered the ERA-1SM Buffer chip and now I can't locate one. Could someone please tell who has it?

John  
K7SVV  
k7svv@arrl.net  
K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

-----  
Date: Wed, 22 Jan 2003 23:01:45 -0700  
From: "Rod N0RC" <rod@n0rc.us>  
To: <lejek@erols.com>,  
      "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [145045] Re: Inputs for Propagation Programs  
Message-ID: <005b01c2c2a4\$e97c2e90\$6601a8c0@BIGDOG>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Larry,

Now I have a question for you. ;-)

What antenna are you using in your ACE-HF models?

I settled on the Isotropic Antenna with the gain set to 0dbi. I'm the guy with the attic antenna, that's why I lowered the gain of this theoretical antenna. So far the results I get with ACE-HF are close to what I observe on the air.

Have you run any NEC models of your antennas and input them into

ACE-HF? I'm slowly working through Cebik's QST series, to be able to do this. Still need the software, (after the XMAS CC bills are paid :-)

73, Rod N0RC

----- Original Message -----

From: "Larry Cahoon" <lejek@erols.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, January 22, 2003 2:54 PM  
Subject: Inputs for Propagation Programs

> I use two of the propagation predication programs out there - ACE-HF and

-----  
Date: Wed, 22 Jan 2003 23:39:45 -0700  
From: "John McClain" <digi2@earthlink.net>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [145046] Sheet Metal Brake  
Message-ID: <000501c2c2aa\$385e05b0\$6401a8c0@Laptop2>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I notice that MicroMark has a couple of Sheet Metal Brakes mentioned on their web page. As I recall they were relatively cheap.

[www.micromark.com](http://www.micromark.com)

John  
K7SVV  
k7svv@arrl.net  
K1 #1378, K2 #2569, SST 20, Rock Mite 20, Rock Mite 40, Nor'Easter

-----  
Date: Wed, 22 Jan 2003 23:57:27 -0800  
From: "Trevor Jacobs" <kg6cyn@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145047] Speaker reconing glue???

Message-ID: <005201c2c2b5\$1342a8c0\$bc33b3d1@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang,

Back when I was a young lad and starting out, I used to re-cone JBL speakers. I have an application that the glue used in re-coning the speakers would work well in. We used to use MEK to thin it and it took a long time to dry, but it was rock solid when cured. Anyone in the business know what it is and where I can get a small quantity? Thanks in advance...

73's Trev KG6CYN  
<http://home.earthlink.net/~kg6cyn>  
<http://www.qsl.net/kg6cyn>

-----  
Date: Thu, 23 Jan 2003 00:59:19 -0800  
From: "Mike T. Miller" <dude@sun.com>  
To: qrp-1@lehigh.edu  
Subject: [145048] Manhattan pads  
Message-ID: <F523B141-2EB0-11D7-B80A-000393A572A6@sun.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII; format=flowed  
Content-transfer-encoding: 7BIT

Anyone have any hints for creating various kinds of pads for manhattan construction? I was thinking of trying a hole punch for round pads and maybe a nibbler for IC sockets. Any other ideas?

-Mike, KE4ZAF

-----  
Date: Thu, 23 Jan 2003 09:24:50 -0000  
From: "Ray Goff" <radioham@gmx.co.uk>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145049] Radio Shack Realistic DX-302  
Message-ID: <004101c2c2c1\$500c3850\$cebd6751@starfishrcg>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Last night was the local radio club's annual 'suprplus equipment (junk) sale' and I came away with a DX-302 receiver. I managed to get it past the XYL with relatively few comments and then powered it up. The outcome is that, as expected, it does not work. The MHz selector seems to work, but the KHz tuning section does not register on the front panel frequency display.

I did a quick web search feeling certain that I could find a schematic for the rig, but no luck so far. Therefore the question, does anybody either have a schematic they can scan and email me or a source on the web that I can tap into.

Any other mods/suggestions would be welcomed. If I can get it working I want to pass it onto a 12 year old lad who is starting to show an interest in radio. Failing that, the components in it are worth more than I paid for it, but it seems a shame to strip it down before having a go at repairing it.

Thanks in advance for any suggestions.

72/73

Ray, g4fon  
www.g4fon.co.uk

-----  
Date: Wed, 22 Jan 2003 11:23:47 -0600 (CST)  
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145050] RE: Weather - Was Re: REAL LIFE HAM RADIO  
Message-ID: <Pine.OSF.4.44.0301221122310.64175-100000@duke.usask.ca>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; charset=US-ASCII

Saskatoon Saskatchewan today: -33 Celcius...They say antennas put up in this temperature last longer and work better than the others...

Brian.

On Wed, 22 Jan 2003 Rudy.Pitte@americawest.com wrote:

> If it'll warm your cockles any it'll be in the mid 70's here in the valley  
> of the sun, Chandler, Az.  
>  
> 73 de Rudy  
> "WW7AZ in the valley of the sun"  
>  
> -----Original Message-----  
> From: Mark Andrews  
> To: Low Power Amateur Radio Discussion  
> Sent: 1/22/03 8:05 AM  
> Subject: OT: Weather - Was Re: REAL LIFE HAM RADIO  
>  
> Y'all need to move someplace warmer. ( Just don't move here! :- )  
>  
> In all seriousness, this past Saturday morning when I got up it was +6F.  
> Pretty darn cold for this part of the country (Northern Alabama).  
> Yesterday  
> the high was +62F. It does get cold in the South it just doesn't stay  
> that  
> way for long!  
>  
> Mark, KE4IOF  
> -----  
> Mark A. Andrews  
>  
> "You can't reason a person out of a position that the  
> person wasn't reasoned into in the first place"  
>  
> ----- Original Message -----  
> From: "David Hinerman" <WD8CIV@worldnet.att.net>  
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
> Sent: Wednesday, January 22, 2003 7:59 AM  
> Subject: Re: REAL LIFE HAM RADIO  
>  
>  
> > Tim,  
> >  
> > I thought we were having it tough in Rochester NY this morning with 6  
> > degrees F, light variable winds, and 3-6 inches of new snow (on top of  
> > the  
> > 10 we got yesterday).  
> >  
> >

Brian Buydens  
Veterinary Electronic Data Specialist  
Computing Services, University of Saskatchewan

email: Brian.Buydens@usask.ca  
http://duke.usask.ca/~buydens  
VE5RDV

-----  
I am a proud citizen of "Soviet Canuckistan"

-----  
Date: Thu, 23 Jan 2003 02:09:58 -0800  
From: "Dave Fifield" <dave@redhotradio.com>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [145051] Announcing New QRP FD Operation from Silicon Valley  
Message-ID: <000201c2c2c7\$9622f8f0\$0a00a8c0@AD6A>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hi Folks,

I have finally decided to do what I should have done years ago here in Silicon Valley. For many years I have joined the WVARA W6PIY FD effort and we have done well. All this time though, we have suffered terribly from self-induced QRM (transmitter phase noise) to the point where FD was simply not any fun at all for me. I have tried for many years now to get the club to see the "error of its ways" and have them try QRP - all to no avail. When the flurry of emails started with the same old arguments/emotions again recently, I made a decision that the QRP'ers will split and go our own way. There are quite a few of them in the club.

So, this is going to be different. We're going to have some QRP fun! I anticipate us being on all HF bands, 6m, 2m, 220MHz, 440MHz, 1.2GHz, 3.4GHz, 10GHz, 24GHz and laser, all with some pretty decent antennas!

(well, okay, the laser doesn't have an antenna, but the Fresnel lens does have GAIN!).

I see absolutely no reason to restrict the fun only to members of the WVARA who happen to be QRP'ers. I want this QRPFD effort to be open to anyone in the area who happens to want to participate. I know there are quite a lot of QRP'ers in the San Francisco bay area and surrounding counties who would LOVE to join a QRP field day site. Well, this is your big chance! The site is likely to be either near the bay in Sunnyvale or a bit further towards the south. We still have to get site permission - the planning only started today!!

We need some commitments from anyone who wants to be a "band captain" - that is, someone who will take charge of a complete station, to make sure the equipment arrives and is all set up and ready in time for the contest. Also, we will welcome people who just want to do an operating stint.

Let me know by private email if you are interested and what you think your level of participation might be.

Cheers for now,  
Dave Fifield  
AD6A

-----  
Date: Thu, 23 Jan 2003 05:21:35 -0500  
From: David Porter <aa3ur@comcast.net>  
To: NJQRP <njqrp@njqrp.org>,  
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145052] Rainbow Tuners Again Available Right Now (and for a little while)  
Message-ID: <NGBBICPOCLKMGIBGGBEA0EPNDAAA.aa3ur@comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Hi folks -

Each year in January the NJQRP sells a limited run of Rainbow Tuner Kits ... and it's that time again!!

The Rainbow Tuner is the popular N2CX-designed resistive-type SWR bridge that displays the relative SWR by illuminating combinations of colorful LEDs. It handles up to 5W RF power and includes a tunable parallel resonant circuit ("ATU") using a tapped inductor that readily tunes an end-fed half wave antenna to cover 7.0-10.16 MHz. When assembled, pc board mounts nicely in an Altoids mint tin, included in the kit! This project was reviewed in past year's issues of QRP Quarterly and QRPP magazines.

An added value this year is that we've redone the PC board and it's now a professionally-done, solder masked and silk-screened board that make assembly even easier! You'll enjoy the added quality.

Kit photos, manual, details, circuit, et al, can be found on the NJQRP website at [http://www.njqrp.org/Rainbow/rb\\_home.html](http://www.njqrp.org/Rainbow/rb_home.html).

The Rainbow Tuner Kit is priced again at \$28 and includes free shipping to US/Canada-based destinations. DX orders please add \$4. We have all 100 Tuner kits all prepared, in stock and ready to ship right now. <gasps>

But here's the deal ... because this year's run is limited to 100 kits, and the demand is usually a bit more than this, we're prepared to take EMAIL RESERVATIONS for your incoming order. If you send us a note committing to buy a Tuner kit, we'll give you an order # (i.e., the kit serial numbers, 1 thru 100) and we'll hold that kit for your incoming payment for up to 10 days. If payment is not received in that time period, the kit will again be made available.

Kit reservations should be made to DAVE PORTER, AA3UR at [njqrp-kits@comcast.net](mailto:njqrp-kits@comcast.net) . Place the words "Tuner Order" and your callsign in the subject line of the email. We'll send you a confirmation number right away, and we'll ship your kit just as soon as payment is received.

Payment can be made by sending funds via PayPal to [njqrp-kits@comcast.net](mailto:njqrp-kits@comcast.net) , or by snail mail. Write check or MO payable to "Dave Porter, AA3UR" and send to:

Dave Porter, AA3UR  
647 Middle Holland Rd  
Holland, PA 18966

Don't forget to reserve your kit in advance ... if we receive orders without a reservation, the order will be placed at the bottom of the pile and only filled if there are unsold kits at the end of this adventure.



Thanks and happy tuning!

73, Dave AA3UR njqrp-kits@comcast.net  
for the NJQRP Club at [www.njqrp.org](http://www.njqrp.org)  
Rainbow Tuner: [www.njqrp.org/Rainbow/rb\\_home.html](http://www.njqrp.org/Rainbow/rb_home.html)

-----  
Date: Thu, 23 Jan 2003 07:39:50 -0600  
From: KD5NWA <KD5NWA@cbayona.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [145053] Re: Part source  
Message-ID: <5.2.0.9.0.20030123073841.00a7ef78@pop.cbayona.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

DC to 2 GHz on the amplifier, sorry about that.

At 03:47 PM 1/22/2003, KD5NWA wrote:

>This source for QRP parts has been mentioned before but I thought I  
>mention that he has TN-2219A transistors 20 for \$1.00, these are 2N2222  
>in a T0237 case. This allows the transistor to dissipate a lot more power,  
>it has metal tab in the case. He also has Fair-Rite 2843002402 binocular  
>cores 20 for \$1.00 which are good for making broadband impedance matching  
>transformers, MSA0786 wide frequency amps for \$.50 (DC to 2 Hz), and a  
>lots of other goodies such as varicap diodes, SMT coils...etc. Brad is  
>also very easy to deal with, and these prices are excellent.

>

>

>>As usual, no personal interest, just thought some may like to know.

>

>

>>Brad Thompson, Bookseller

>>P.O. Box 307, 202 Whitaker Rd.

>>Meriden, NH 03770-0307

>>voice: (603) 469-3351

>>fax: (603) 469-3917

>><<mailto:brad.thompson@valley.net>>

>

>

>Cecil

>KD5NWA

Cecil  
KD5NWA

-----  
Date: Thu, 23 Jan 2003 06:52:47 -0700  
From: "Rod N0RC" <rod@n0rc.us>  
To: "qrp-1" <qrp-1@Lehigh.EDU>, "cqc-1" <CQCLIST@yahooogroups.com>,  
"ncarc-1" <ncarc@mailman.qth.net>  
Subject: [145054] STRATWARMS (AT LAST!!!)  
Message-ID: <009601c2c2e6\$b6acf4d0\$6401a8c0@greyrock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Folks,

For months I searched for a definition and the effects of "Startwarm events". I finally found one:

"STRATWARMS lists all the stratospheric warmings issued for 1987-1995 by the Frei University of Berlin. A STRATWARM is a major disturbance of the winter polar middle atmosphere (troposphere to D-region) resulting from a breakdown of the polar vortex into two cells. Air trapped in the vortex is mixed by the new meridional flow and can be exposed to sunlight. Solar Lyman alpha ionizes the nitric oxide, enhancing electron density and producing strong HF absorption. This STRATWARMS database is from the alerts received and issued by the NOAA SEL."

This comes from NOAA: <http://www.ngdc.noaa.gov/stp/SOLAR/solarda3.html>  
The link will take you to a paper: "SOLAR DATABASES FOR GLOBAL CHANGE MODELS"; by H.E. Coffey, E.H. Erwin and C.D. Hanchett; Solar-Terrestrial Physics Division NOAA NESDIS National Geophysical Data Center; 325 Broadway, Boulder, Colorado 80303

This is a great survey paper for a wide variety of solar data and where to "get the numbers". A worthy read indeed!

73, Rod N0RC

-----  
Date: Thu, 23 Jan 2003 09:14:46 -0500  
From: "E. Roswell" <eroswell@monmouth.com>  
To: qrp-1@Lehigh.EDU  
Subject: [145055] Re: Sheet Metal Brake Drawing?

Message-ID: <3E2FF8D6.41C9A700@monmouth.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

See also QST, October 1996, pp 41-43, also available on ARRL web site as pdf document:

<http://www.arrl.org/members-only/tis/info/pdf/9610041.pdf>

73, Ed, K2MGM.

-----  
Date: Thu, 23 Jan 2003 08:19:29 -0600

From: KD5NWA <KD5NWA@cbayona.com>

To: christrask@earthlink.net, Qrp-l@lehigh.edu

Subject: [145056] Re: Pre-Amps

Message-ID: <5.2.0.9.0.20030123080921.00a8db40@pop.cbayona.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I found that Mouser has the NE68133 for 68 cents so I ordered 15, they should be in tomorrow, the ferrite cores are due today, so this weekend, it's melt solder time. I found a 2SCxxxx number, I don't have it with me, that I will try to get .9db noise at 400MHz with a FT of 2GHz.

<<http://www.home.earthlink.net/~christrask/AugAmp1.pdf>>

> Devices with imbedded emitter ballast resistors are really not suitable  
>for Norton amplifiers. Any transistor using 90mA bias current is going to  
>give exceptional IMD performance, like the 2N5109 circuits that are floating  
>around. The purpose of augmentation in small signal amplifiers is to get  
>good IMD performance at low current levels where the NF performance is  
>better. In power amplifiers, the purpose is to get peak power efficiencies  
>in the upper 90's.

>

> >

> > (3) which are the best choices for low noise figure transistors

> > readily available today; in the early 80s the mrf571, then the mrf581

> > lead the pack.

> >

>

> There are plenty of good low NF transistors available. I prefer the  
>NE681XX as it's NF is best at relatively high (10mA) collector currents,  
>which will give good IMD and NF performance simultaneously.

>

>Chris

>



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IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)  
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

----- Original Message -----

From: "KD5NWA" <KD5NWA@cbayona.com>  
To: <[chistrask@earthlink.net](mailto:chistrask@earthlink.net)>; <[Qrp-1@Lehigh.EDU](mailto:Qrp-1@Lehigh.EDU)>  
Sent: Thursday, January 23, 2003 7:19 AM  
Subject: Re: Pre-Amps

> I found that Mouser has the NE68133 for 68 cents so I ordered 15, they  
> should be in tomorrow, the ferrite cores are due today, so this weekend,  
> it's melt solder time. I found a 2SCxxxx number, I don't have it with me,  
> that I will try to get .9db noise at 400MHz with a FT of 2GHz.  
>  
> <<http://www.home.earthlink.net/~chistrask/AugAmp1.pdf>>  
>  
> > Devices with imbedded emitter ballast resistors are really not  
> suitable  
> >for Norton amplifiers. Any transistor using 90mA bias current is going  
> to  
> >give exceptional IMD performance, like the 2N5109 circuits that are  
> floating  
> >around. The purpose of augmentation in small signal amplifiers is to get  
> >good IMD performance at low current levels where the NF performance is  
> >better. In power amplifiers, the purpose is to get peak power  
> efficiencies  
> >in the upper 90's.  
> >  
> > >  
> > > (3) which are the best choices for low noise figure transistors  
> > > readily available today; in the early 80s the mrf571, then the mrf581  
> > > lead the pack.  
> > >  
> >  
> > There are plenty of good low NF transistors available. I prefer the  
> >NE681XX as it's NF is best at relatively high (10mA) collector currents,  
> >which will give good IMD and NF performance simultaneously.

```

> >
> >Chris
> >
> >
> >      ,-----
> >      /      What's all this      \
> >      / extinct stuff, anyhow?  /
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> KD5NWA
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```

High Performance Mixers and  
Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [chistrask@earthlink.net](mailto:chistrask@earthlink.net)  
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

```

-----
Date: Thu, 23 Jan 2003 09:47:30 -0500
From: "AI2Q" <ai2q@adelphia.net>
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Cc: <n4lgh@waveguide.us>
Subject: [145058] RE: Current Sensing
Message-ID: <000401c2c2ee$5b337860$6401a8c0@hq.cmp.com>
MIME-Version: 1.0
Content-Type: text/plain;
      charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

```

Check out the sensor at  
[http://www.chipcenter.com/TestandMeasurement/products\\_401-500/prod426.html](http://www.chipcenter.com/TestandMeasurement/products_401-500/prod426.html)

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of

N4LGH

Sent: Wednesday, January 22, 2003 7:11 PM

To: Low Power Amateur Radio Discussion

Subject: OT: Current Sensing

I want some things to happen when the transmitter turns on in a little jig I'm building, but I don't want to use RF sensing.

I'd like to use a current sensor to know when the amp is on, not just when it's putting out RF. I was thinking of using the A/D converter in the processor chip.

Have any of you guys compared currents with A/D converters? Know of any good tutorials? I'm new to micro controllers and A/D, have no clue what I'm doing. Any pointers would be great.

Tracy N4LGH

-----  
Date: Thu, 23 Jan 2003 10:11:34 -0500

From: David Hinerman <WD8CIV@worldnet.att.net>

To: qrp-l@lehigh.edu

Subject: [145059] Re: OT: Current Sensing

Message-ID: <5.1.1.6.1.20030123095656.00a649d0@ipostoffice.worldnet.att.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 04:10 PM 1/22/2003 -0800, you wrote:

>I want some things to happen when the transmitter turns on in a little jig

>I'm building, but I don't want to use RF sensing.

>

>I'd like to use a current sensor to know when the amp is on, not just when

>it's putting out RF. I was thinking of using the A/D converter in the

>processor chip.

>

>Have any of you guys compared currents with A/D converters? Know of any good

>tutorials? I'm new to micro controllers and A/D, have no clue what I'm

>doing. Any pointers would be great.

Tracy,

Do you want to sense AC or DC?

Sensing current in a 120VAC line isn't too bad. You could buy a clamp-on

current transformer, similar to what is used in a clamp-on ammeter, and feed the secondary of it through a rectifier and sample the resulting DC voltage. In a pinch a filament transformer with a low-voltage secondary rated to handle the full transmitter current can be used. Wire the secondary in series with the transmitter, rectify the voltage from the primary, and sample that. (And for goodness sake mind your voltage levels! You may see tens or hundreds of volts on the primary. Check it with a voltmeter, and scale it down with a resistive divider if need be.)

If you're measuring DC, a very small series resistor will develop a voltage drop that can be amplified with a differential amp and sampled. If it's a high-voltage DC supply, there are circuits that can be used to measure it safely. Maybe search National Semiconductors' app notes for "current sensing." The problem with sensing DC is that you can't use a transformer for isolation, so you have to be extra careful to not expose your equipment or yourself to high voltages.

In either case, AC or DC, you need to convert the current to a voltage for your A/D converter to sample.

Do you actually want to measure the current, or just sense when it is flowing? If all you want is an on-off indication, you could put a relay or even an optocoupler LED in series with the transmitter (although you may need a current divider for the optocoupler - they usually only take 20 mA or so) and feed the contacts or opto output to an input pin on your micro.

I might be able to help out more if I knew what kind of current you want to measure: AC or DC, the maximum value, and the accuracy you need. Where I work we make power measurement gear, so we do a lot with current sensing.

Dave

-----  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
  
Date: Thu, 23 Jan 2003 08:23:10 -0700  
From: "Chris Trask" <chrisrask@earthlink.net>  
To: "KD5NWA" <KD5NWA@cbayona.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145060] Re: Pre-Amps  
Message-ID: <006201c2c2f3\$577c4a80\$bd003b41@ctrask>



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MIME-Version: 1.0
Content-Type: text/plain;
               charset="Windows-1252"
Content-Transfer-Encoding: 7bit
```

The 2SC5761 that you have mentioned is an impressive small-signal device, despite the fact that it is for 3V applications:

<<http://www.csd-nec.com/microwave/english/pdf/P15415EJ1V1DS00.pdf>>

At 1 GHz the NF is less than 1.0dB at 10mA, which is good for simultaneous IMD performance. And the curve family shown on page 3 of the datasheet shows that it is a very linear device. This is typical of SiGe transistors.

Chris

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  / extinct stuff, anyhow? /
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# High Performance Mixers and Amplifiers for RF Communications

Chris Trask / N7ZWY  
Principal Engineer  
Sonoran Radio Research  
P.O. Box 25240  
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: [christrask@earthlink.net](mailto:christrask@earthlink.net)  
<http://www.home.earthlink.net/~christrask>

Graphics by Loek Frederiks

Date: Thu, 23 Jan 2003 10:22:46 -0500  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [145061] Re: VFo Buffer Amp  
Message-ID: <5.1.1.6.1.20030123101447.00a5bec0@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:52 PM 1/22/2003 -0800, you wrote:  
>In the 2001 Handbook on page 17.74 is the schematic of a VF0 used with

>the biaural DC receiver.

Rich et al.:

FYI the article is also available in the Members Only part of the ARRL Web site:

<<http://www.arrl.org/members-only/tis/info/pdf/9903044.pdf>>

>The design uses a common source FET buffer with a transformer which i  
>don't understand. I thought it was a balun of some sorts but i can not  
>find an example of that hookup. I have looked.  
>Any insight into what is going on with that trifilar matching  
>transformer would be welcome.

That's exactly what it is - an impedance matching transformer (actually an autotransformer). It converts the higher output impedance of the JFET amplifier (with a high p-p voltage) to a lower output impedance to drive the following stage (lower voltage swing, but able to supply more current.) It's not really a balun because it's not converting from unbalanced to balanced lines - it's unbalanced all the way through.

The following stage is a phase-shift network to provide 2 LO signals 90 degrees apart for the I and Q mixers. Such phase shift networks tend to be sensitive to source and load impedances. Hence the matching transformer.

Dave

-----  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 23 Jan 2003 10:27:29 -0500  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [145062] Re: Manhattan pads  
Message-ID: <5.1.1.6.1.20030123102357.00a79140@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:59 AM 1/23/2003 -0800, you wrote:

>Anyone have any hints for creating various kinds of pads for manhattan  
>construction? I was thinking of trying a hole punch for round pads and  
>maybe a nibbler for IC sockets. Any other ideas?

Mike,

I use a Radio Shack nibbler for pads, and they work pretty well for DIP ICs. (Sometimes you'll get little copper threads sticking out that can short to an adjacent pad, but a quick scrape with a knife point will usually clear it.) They're a little bit smaller than I'd like for non-IC applications, especially for a node with a lot of connections, but I haven't tried a round punch yet.

My wife buys inexpensive craft punches at Wally World, but I suspect they wouldn't penetrate 1/16th inch board stock. I have some thinner stuff, but I can't quite bring myself to use teddy-bear shaped pads.

Dave

-----  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 23 Jan 2003 10:28:52 -0500  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-1@lehigh.edu  
Subject: [145063] RE: Weather - Was Re: REAL LIFE HAM RADIO  
Message-ID: <5.1.1.6.1.20030123102806.00a6a070@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Brian,

Does aluminum become a superconductor at such temperatures?

Dave

At 11:23 AM 1/22/2003 -0600, you wrote:  
>Saskatoon Saskatchewan today: -33 Celcius...They say antennas put up in  
>this temperature last longer and work better than the others...

-----  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 23 Jan 2003 10:59:01 -0500  
From: "Ken Newman" <N2CQ@Dandy.Net>  
To: "W3BG" <W3BG@arrl.net>, "Norm Into" <normk8ni@neo.rr.com>,  
"N4SO" <N4SO@Juno.com>, "List Elecraft" <Elecraft@mailman.qth.net>,  
Subject: [145064] [CONTEST] N2CQ QRP Contest Calendar - Jan 23-31  
Message-ID: <012901c2c2f8\$5fe64680\$a89efa42@D910G521>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

~~~~~  
N2CQ QRP CALENDAR  
JANUARY 23-31, 2003  
~~~~~

40 METER FOXHUNTS

Fox Hunt - Thursdays - 9pm EST, 8PM CST, 7PM MST and 6PM PST.

Info: <http://www.cqc.org/fox>

Truffle Hunt - Thursdays - 30 min before Fox Hunt

Info: [http://fpqrp.com/pig\\_hunt.html](http://fpqrp.com/pig_hunt.html)  
~~~~~

CQ WW 160-Meter DX Contest (CW) ... QRP Category

Jan 25 - 0000z to Jan 26 - 2400z

Rules: <http://www.cq-amateur-radio.com/infoc.html>  
~~~~~

UBA DX Contest (Belgian) (SSB) ... QRP Category

Jan 25 - 1300z to Jan 26 1300z

Rules: <http://www.uba.be>  
~~~~~

Thanks to SM3CER, WA7BNM & N0AX/ARRL and others  
for assistance in compiling this calendar.

Anyone may use this "QRP Contest Calendar" for your website,  
newsletter, e-mail list or other media as you choose.  
(Include a credit to the source of this material of course.)

72 de

Ken Newman - N2CQ

N2CQ@ARRL.NET

<http://www.njqrp.org/data/contesting.html>

<http://www.n3epa.org/Pages/Contest/contest.htm>

<http://www.qsl.net/cqrp/contests.html>

-----  
Date: Thu, 23 Jan 2003 08:13:23 -0800  
From: Bob W7AVK <rsrolfne@atnet.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145065] Building with old parts - Question?  
Message-ID: <3E3014A3.865B3715@atnet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Good Day Group - A question asking for any Hint or Kink on soldering some junk box parts. I have several MOLEX type connectors that use tin plated soldering pads. These have been around for years and the tin seems to have tarnished to where the solder finds it difficult to "wet" the joint.

Is there any easy way to clean the connector's tin plating?

What I am hoping to find is a Hint like using a BOUNCE fabric softener cloth in with a rig to remove the cigarette smell. What a great idea and it works too.

thanks,

73 Bob W7AVK

-----  
Date: Thu, 23 Jan 2003 16:25:08 +0000  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [145066] [Parts] Tiny Trove II  
Message-ID: <F39aTWEZxxY5E8ivj2b00016fbe@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Folks,

In the spirit of Brian's recent SMT cap offer, I have likewise prepared a small assortment of diminutive components, excess to my needs, at an equally small price.

For a dollar and a self-addressed stamped envelope, you get:

25 each:

- 10 pF, 5%, 50V, NP0/COG size 1206 ceramic chip caps  
(KEMET #C1206C100J5GAC7800)
- 100 pF, 10%, 50V, NP0/COG size 1206 ceramic chip caps  
(KEMET #C1206C101K5GAC7800)
- 1K size 1206 chip resistors, Dale
- 10K size 1206 chip resistors, Dale
- 3.3K size 1206 chip resistors, Dale
- 4.7K size 1206 chip resistors, Philips

10 each:

- MMBT3904T NPN transistor SOT-23
- MMBT2907ALT1 PNP transistor SOT-23

.... but WAIT!, you also get an undisclosed quantity of additional  
"mystery" parts of my choosing. :-)

This is a limited quantity and time deal that hopefully will aid  
your parts stash and promote SMT tinkering.

My address is listed accurately at that "Cue our zed dot com" site.  
However, please e-mail FIRST to reserve an assortment.

Brad KG6IOE

---

Add photos to your e-mail with MSN 8. Get 2 months FREE\*.  
<http://join.msn.com/?page=features/featuredemail>

---

Date: Thu, 23 Jan 2003 11:26:56 -0500  
From: W2AGN <w2agn@w2agn.net>  
To: rod@n0rc.us, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [145067] Re: STRATWARMS (AT LAST!!!)

Message-ID: <3E2FD180.12241.19F40F8B@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 23 Jan 2003 at 6:52, Rod N0RC wrote:

> A STRATWARM is a major disturbance of the  
> winter polar middle atmosphere (troposphere to D-region) resulting from  
> a breakdown of the polar vortex into two cells. Air trapped in the  
> vortex is mixed by the new meridional flow and can be exposed to  
> sunlight. Solar Lyman alpha ionizes the nitric oxide, enhancing electron  
> density and producing strong HF absorption. This STRATWARMS database is  
> from the alerts received and issued by the NOAA SEL."

That would explain why, after several nights sounding like 20M, 80M DX  
was gone the past couple nights. Even 40M was lousy last night. Thanks  
for the info, I had wondered about the effect of the STRATWARM warnings.

---

+---+---+---+---+ John L. Sielke  
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]  
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----

Date: Thu, 23 Jan 2003 12:04:09 -0500  
From: David Hinerman <WD8CIV@worldnet.att.net>  
To: qrp-l@lehigh.edu  
Subject: [145068] Re: Building with old parts - Question?  
Message-ID: <5.1.1.6.1.20030123120127.00a74b60@ipostoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:13 AM 1/23/2003 -0800, you wrote:

>Good Day Group - A question asking for any Hint or Kink on soldering  
>some junk box parts. I have several MOLEX type connectors that use tin  
>platted soldering pads. These have been around for years and the tin  
>seems to have tarnished to where the solder finds it difficult to  
>"wet" the joint.

Bob,

A little bit of flux may help. Radio Shack has (or at least had a couple of  
years ago) a small squeeze tube of paste flux. A dab on the metal before  
heating to apply solder may make the difference.

>Is there any easy way to clean the connector's tin plating?  
>  
>What I am hoping to find is a Hint like using a BOUNCE fabric  
>softener cloth in with a rig to remove the cigarette smell. What  
>a great idea and it works too.

That's a great idea. I wish I knew that when I worked in the radio shop.

Dave

-----  
Dave Hinerman  
WD8CIV@worldnet.att.net

-----  
Date: Thu, 23 Jan 2003 09:13:20 -0800  
From: Ted Buckley <tedb@aracnet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145069] Re: Building with old parts - Question?  
Message-ID: <5.1.0.14.2.20030123090724.00a6c520@mail.aracnet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 08:13 AM 1/23/03 -0800, Bob W7AVK wrote:

>Good Day Group - A question asking for any Hint or Kink on soldering  
>some junk box parts. I have several MOLEX type connectors that use tin  
>platted soldering pads. These have been around for years and the tin  
>seems to have tarnished to where the solder finds it difficult to  
>"wet" the joint.

>

>Is there any easy way to clean the connector's tin plating?

>

>What I am hoping to find is a Hint like using a BOUNCE fabric  
>softener cloth in with a rig to remove the cigarette smell. What  
>a great idea and it works too.

>

>thanks,

>

>73 Bob W7AVK

Bob, You might have good luck using a active liquid flux on the connector prior to soldering. I keep a tube of Radio Shack Rosin Soldering Paste Flux p/n 64-021A on hand for this purpose. It seems to help with oxidized tin and with the cruddy bright plating on Radio Shack Connectors as well. Ted WA7DFD



-----  
Date: Thu, 23 Jan 2003 11:19:44 -0600  
From: KD5NWA <KD5NWA@cbayona.com>  
To: christrask@earthlink.net,  
      "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145070] Re: Pre-Amps  
Message-ID: <5.2.0.9.0.20030123111700.00a96ba8@pop.cbayona.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have not seriously looked for a source of the transistor, but if it's reasonably priced I have use for a couple of them in VFH/UHF area.

At 09:23 AM 1/23/2003, Chris Trask wrote:

> The 2SC5761 that you have mentioned is an impressive small-signal  
> device, despite the fact that it is for 3V applications:  
>  
> <<http://www.csd-nec.com/microwave/english/pdf/P15415EJ1V1DS00.pdf>>  
>  
> At 1 GHz the NF is less than 1.0dB at 10mA, which is good for simultaneous  
> IMD performance. And the curve family shown on page 3 of the datasheet  
> shows that it is a very linear device. This is typical of SiGe transistors.

> Chris

>

> /-----.\                    High Performance Mixers and  
> /    What's all this       \       Amplifiers for RF Communications  
> / extinct stuff, anyhow? /

> \-----.\                    Chris Trask / N7ZWY  
> \                               Principal Engineer  
> \                               Sonoran Radio Research  
> \                               P.O. Box 25240  
> \                               Tempe, Arizona 85285-5240

> \                               IEEE Member #40274515

>                               Email: christrask@earthlink.net  
>                               <http://www.home.earthlink.net/~christrask>  
>                               c\_\_; c\_\_; '-.. '>.\_\_

>                               Graphics by Loek Frederiks

Cecil

KD5NWA

-----  
Date: Thu, 23 Jan 2003 09:09:36 -0400  
From: "Prof. Arnaldo Coro Antich" <inforhc@ip.etcscu.cu>  
To: "Rod N0RC" <rod@n0rc.us>  
Cc: <qrp-1@Lehigh.EDU>, <CQCLIST@yahoogroups.com>  
Subject: [145071] Re: [CQCLIST] STRATWARM (AT LAST!!!)  
Message-ID: <006101c2c2fc\$30055c40\$02000a0a@user>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Dear amigo Rod:

This is the shortest and most understandable explanation of STRATOSPHERIC WARMING that I have read so far.

One of the most interesting and often neglected facts about HF propagation in the range between 2 megaHertz and about 15 megaHertz is the ABSORPTION of the radio waves by the D layer of the ionosphere; something that happens TWICE, once when the wave goes upward to the ionosphere, and in the event that the E, F1, or F2 layers will refract the wave back to Earth, that downward wave must again go through the D layer suffering another ABSORPTION process.

As the frequency is increased, radio waves are less absorbed by the D layer, and that explains the phenomenal success of QRP rigs on the 50 megaHertz band, where 1 milliWatt has made it from Brazil to Greece !!!!

D layer absorption is much higher if the two points of the single hop path are both in daylight, and as expected is less if one of the two points is located past the terminator line.

Minimal HF absorption happens when solar activity is at its minimum, and that explains the nice 160 and 80 meter band DX one can work during solar minimum years !

Solar cycle 23 has two very clearly identifiable maximums, but the second one, only slightly less significant than the first, was MUCH MORE SIGNIFICANT for us HF and 6 meter band users, because it happened during the WINTER season of the Northern Hemisphere, and that led to phenomenal DX conditions on both 10 and 6 meters, because the density of the F2 layer during the winter season is much higher than during the summer ( when the first peak happened ).

Thank you very much for posting such an interesting finding, reminding us that amateur radio is a hobby that continues to help science understand very complicated interactions between the Earth's upper atmosphere and the solar emissions.

73 and DX

YOur friend in Havana

Arnie Coro

C02KK

----- Original Message -----

From: "Rod N0RC" <rod@n0rc.us>

To: "qrp-1" <qrp-1@Lehigh.EDU>; "cqc-1" <CQCLIST@yahoogroups.com>; "ncarc-1" <ncarc@mailman.qth.net>

Sent: Thursday, January 23, 2003 9:52 AM

Subject: [CQCLIST] STRATWARMS (AT LAST!!!)

> Folks,

>

> For months I searched for a definition and the effects of "Startwarm  
> events". I finally found one:

>

> "STRATWARMS lists all the stratospheric warmings issued for 1987-1995 by  
> the Frei University of Berlin. A STRATWARM is a major disturbance of the  
> winter polar middle atmosphere (troposphere to D-region) resulting from  
> a breakdown of the polar vortex into two cells. Air trapped in the  
> vortex is mixed by the new meridional flow and can be exposed to  
> sunlight. Solar Lyman alpha ionizes the nitric oxide, enhancing electron  
> density and producing strong HF absorption. This STRATWARMS database is  
> from the alerts received and issued by the NOAA SEL."

>

> This comes from NOAA: <http://www.ngdc.noaa.gov/stp/SOLAR/solarda3.html>  
> The link will take you to a paper: "SOLAR DATABASES FOR GLOBAL CHANGE  
> MODELS"; by H.E. Coffey, E.H. Erwin and C.D. Hanchett; Solar-Terrestrial  
> Physics Division NOAA NESDIS National Geophysical Data Center; 325  
> Broadway, Boulder, Colorado 80303

>

> This is a great survey paper for a wide variety of solar data and where  
> to "get the numbers". A worthy read indeed!

>

> 73, Rod N0RC

>

>

>

> To unsubscribe from this group, send an email to:  
> CQCLIST-unsubscribe@yahoogroups.com

>

>

>

> Your use of Yahoo! Groups is subject to <http://docs.yahoo.com/info/terms/>

>

>

>

-----  
Date: Thu, 23 Jan 2003 12:49:26 -0500  
From: Ed Tanton <n4xy@earthlink.net>  
To: QRP-L Reflector <qrp-l@lehigh.edu>  
Subject: [145072] Re: Building with old parts - Question? P.S.  
Message-ID: <5.2.0.9.2.20030123124859.01ec5c00@pop.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Bob... have you tried laying on the flux from straight flux a flux pen?

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Thu, 23 Jan 2003 12:49:51 -0500  
From: "Mike Yettsko" <myetsko@insydesw.com>  
To: <kg6cyn@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145073] Re: Speaker reconing glue???  
Message-ID: <003a01c2c307\$dd1f5240\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Try MCM Electronics. They sell speaker rebuilding kits, so they may have the glue.

Mike

> Back when I was a young lad and starting out, I used to re-cone JBL

> speakers. I have an application that the glue used in re-coning the  
> speakers would work well in. We used to use MEK to thin it and it took a  
> long time to dry, but it was rock solid when cured. Anyone in the  
> business know what it is and where I can get a small quantity? Thanks in  
> advance...  
>  
> 73's Trev KG6CYN  
> <http://home.earthlink.net/~kg6cyn>  
> <http://www.qsl.net/kg6cyn>

-----  
Date: Thu, 23 Jan 2003 12:54:06 -0500  
From: Ed Tanton <n4xy@earthlink.net>  
To: rsrolfne@atnet.net, QRP-L Reflector <qrp-l@lehigh.edu>  
Subject: [145074] Re: Building with old parts - Question? P.S.  
Message-ID: <5.2.0.9.2.20030123123608.01e9d370@pop.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

P.S. OTH... I wouldn't use tin plated anythings below 100VDC as connectors. I know they work, but it's just not worth the aggravation when they go intermittent. I was Chief Tech for a technical college years ago, and one of my biggest headaches were single board microprocessor trainers using tin IC sockets. I would have to run through them every so often, pressing EVERY ONE of the chips back in their sockets. Presumably, it was an oxidation layer building up between the tin IC leads and the tin IC sockets. I've never really understood why two very similar metals would do that. You'd think they'd just get friendly with each other on a molecular level. But no-o-o!!! (Maybe IC sockets that aren't gold plated, have nickel or something.)

Anyway, I HAVE a lot of MOLEX stuff, but rarely use it... and as I mentioned, never below 100VDC. Great for TTY cables/etc. I DID get some pins with gold-plating, just in case, though. And... Ten-Tec and others use pins VERY similar to MOLEX (if not the actual company) for most of the 13.5V input to practically every ham transceiver there is. Maybe the high current prevents the oxide from forming?

P.P.S. I use NOTHING but gold-insert IC machined-pin IC sockets ever since the trainers. I have the world's only PC-XT with machined-pin IC sockets in EVERY position. This was for an article I wrote for an obscure cpu mag called: "Computer Smith". I built a PC-XT from a bare DTC motherboard (\$500 at the time.) They paid for the hardware, and I bought the software. Worked 1st time, I am proud to say. Still have it.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Thu, 23 Jan 2003 12:55:16 -0500  
From: "Mike Yetzko" <myetzko@insydesw.com>  
To: <rsrolfne@atnet.net>,  
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [145075] Re: Building with old parts - Question?  
Message-ID: <008201c2c308\$99547940\$0300a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Good Day Group - A question asking for any Hint or Kink on soldering  
> some junk box parts. I have several MOLEX type connectors that use tin  
> plated soldering pads. These have been around for years and the tin  
> seems to have tarnished to where the solder finds it difficult to  
> "wet" the joint.  
>  
> Is there any easy way to clean the connector's tin plating?  
>  
> What I am hoping to find is a Hint like using a BOUNCE fabric  
> softener cloth in with a rig to remove the cigarette smell. What  
> a great idea and it works too.  
>  
> 73 Bob W7AVK

Well, you could use just raw flux. It's available from a number of  
places.

If it's really stubborn, you could even try Radio Shack Tip Cleaner and just take a Q-Tip to smear a TINY amount on the part, then solder. That stuff will 'bite through' tips that have been left on and dry (without solder)!

Also in a lot of cases, I've used an eraser to 'polish' the part.

Mike

-----  
Date: Thu, 23 Jan 2003 13:21:27 -0500  
From: W2AGN <w2agn@w2agn.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [145076] Re: [CQCLIST] STRATWARM (AT LAST!!!)  
Message-ID: <3E2FEC57.12128.2C4C3D@localhost>  
MIME-version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

On 23 Jan 2003 at 9:09, Prof. Arnaldo Coro Antich wrote:

> Dear amigo Rod:  
> This is the shortest and most understandable explanation of STRATOSPHERIC  
> WARMING that I have read so far.

I most certainly agree. Not only that, but now some of us will have ANOTHER excuse for doing poorly in the FOX hunts tonight. High K Index, High A Index, STRATWARM, ice on the antenna, wow, it will be a miracle if anyone gets a pelt tonight.... ;-)

---  
+---+---+---+---+ John L. Sielke  
|W||2||A||G||N| http://www.w2agn.net [UPDATED]  
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

-----  
Date: Thu, 23 Jan 2003 13:23:32 -0500  
From: Ed Tanton <n4xy@earthlink.net>  
To: kg6cyn@earthlink.net,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [145077] Re: Speaker reconing glue???  
Message-ID: <5.2.0.9.2.20030123131233.01ec26f8@pop.earthlink.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Trev... you can check my speaker-reconing page at:  
<[http://www.qsl.net/n4xy/SPKR\\_Reconing.html](http://www.qsl.net/n4xy/SPKR_Reconing.html)> or just go right to the page  
of the company where I got my repair kits at:  
<<http://www.simplyspeakers.com/2doityourself.htm>> . I don't know for  
certain, but I believe they will sell the glue separately. It is not like  
your old glue (it dries pretty FAST) but sure did a good job of joining  
foam speaker surround to metal.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Thu, 23 Jan 2003 10:42:01 -0800  
From: "Bob Tellefsen" <n6wg@earthlink.net>  
To: <qrp-l@lehigh.edu>  
Subject: [145078] Re: Manhattan pads  
Message-ID: <MABBJOEABOILMKCJCLFCCEPIDPAA.n6wg@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Mike

The round pads are pretty common. Also, the  
little skinny rectangles from a nibbler are  
often used.

Don't know of any other kinds of punchings.

73, Bob N6WG



-----  
Date: Thu, 23 Jan 2003 14:07:28 -0500  
From: "Franco, Nicholas J" <franco@bnl.gov>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [145079] Trying 20m QRP WAS  
Message-ID: <D869CC4782D3D41182CB0002B30A362B80AF98@exchange01.bnl.gov>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

HI gang,

The club shack here at Brookhaven National Lab has been dormant for a few years. I am going to try to get some interest in HF here at work and QRP at that. We have a nice tri-band Beam on the roof of our 2 story building that the shack is in. I also applied for a club call a few years ago.

SO - I will operating during lunch times whenever I have a chance as K2BNL on 20m. I brought in my DSP-20 (or whatever the model of that GREAT kit from Small Wonder Labs that has been discontinued) and a ZM-2 ATU. This is my first attempt at working with a beam and I'm dealing with the learning curve on that.

If nothing else, I'll get the club some new wallpaper (QSL cards). I just keep sending my own call automatically, by accident. So bear with me and give me a yell if you hear my peanut whistle out there. It may take me a little time to figure out swinging the beam your way :-)

72,  
Nick - kf2p . . . (I mean - K2BNL qrp) . .

--  
Nicholas J. Franco <>< Brookhaven National Laboratory  
Sr. Applications Engineer Collider-Accelerator Department  
Tel: 631-344-5467 Fax: 631-344-2833 mailto:franco@bnl.gov

-----  
Date: Thu, 23 Jan 2003 14:34:39 -0500  
From: "brian" <brian@iquest.net>  
To: "Flying Pigs" <fpqrp-l@fpqrp.com>, "QRP-L" <qrp-l@lehigh.edu>  
Subject: [145080] SMT CAP Offer  
Message-ID: <003f01c2c316\$79c02e90\$3d05080a@cincom.com>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey gang,

If you haven't sent your \$1 and SASE yet for the 150 SMT 390pf NPO SMT 1206 caps...PLEASE put two stamps on the SASE.

I screwed up.

If you already mailed it, don't sweat it.

73

=====  
KB9BVN/QRP - New Whiteland IN - EM69WN  
QRP-ARCI #10223 QRP-L #1540 FIST #5695  
FISTS CC #764 - Proud Member ARRL  
HEATH HW-9 @ 2W or NORCAL 40A @ 1.3W  
INTO INFAMOUS AF4PS ATTIC DIPOLE  
SOC #400 AND FLYING PIGS QRP #-57  
=====

-----

Date: Thu, 23 Jan 2003 14:04:20 -0600  
From: "Don Wines" <dwines@tyler.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145081] Re: Trying 20m QRP WAS  
Message-ID: <01b001c2c31a\$9e253600\$e8034c42@coxinternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Nick wrote:

Snip...

> S0 - I will operating during lunch times whenever I have a chance as K2BNL  
> on 20m.

Snip...

Nick,

What are your "lunch times" so we'll know when to listen.

72

Don, K5DW

k5dw@arrl.net

QRP-L #2083 QRP-ARCI #10145 NETXQRP #3 EM22gm

Visit the NETXQRP Web Site at <http://www.netxqrp.org>

-----  
Date: Thu, 23 Jan 2003 15:10:32 -0500  
From: Ed Tanton <n4xy@earthlink.net>  
To: QRP-L Reflector <qrp-l@lehigh.edu>,  
noGA reflector <nogaqrp@mailman.qth.net>  
Subject: [145082] Info Source  
Message-ID: <5.2.0.9.2.20030123150723.01db44b0@pop.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

While surfing around the 'net-when I should be busy elsewhere, I ran into a really nice electronics company-and hence data sheet-locator, Electrospec's Electronic Locator: URL is <<http://www.electroniclocator.com/mainmenu.html>> . Check it out.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY

189 Pioneer Trail

Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by  
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;

SEDXC NCDXA GACW QRP-ARCI

OK-QRP QRP-L #758 K2 (FT) #00057

-----  
Date: Thu, 23 Jan 2003 12:22:30 -0800  
From: Mark Schoonover <schoon@amgt.com>

To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [145083] How Would You Clean This Roller Inductor??  
Message-ID: <BF889CEBEFD2D511B993009027F60ABE4F651F@AG-JASMINE-NT4>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Thanks for reading.

I'm in the process of building a tuner. I have all the parts - EF Johnson variable caps, and a real nice roller inductor. The roller inductor has been sitting in a box for years, and has quite a buildup of tarnish. Here what I have: [http://www.surplussales.com/ind-var\\_detail/7463338\\_d.html](http://www.surplussales.com/ind-var_detail/7463338_d.html). Mine has the complete turns counter on it. I don't want to damage it, but would like to make it look and work like new. Any 'safe' ideas?? I've also been looking at different tuner schematics, it seems the T is the best. Any thoughts??

Thanks and 72

.mark

-----  
Date: Thu, 23 Jan 2003 15:32:05 -0500  
From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>  
To: "List; QRP, QRP Mailing List" <qrp-l@lehigh.edu>  
Subject: [145084] PCB Printer  
Message-ID: <000501c2c31e\$9a6c01c0\$8889cccf@bbbcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I just saw an ad for a printer that prints directly on a CDR. I don't have one and can't afford to buy one but if I had one I would want to try an experiment. I would cut out a chunk of PCB material that would fit through the machine, print a layout on it, and through it in the etchant. I wonder what would happen.

Jim, WD9EYB

-----

Date: Thu, 23 Jan 2003 16:08:56 -0500  
From: Jerry Lofstead <w3cde@bellsouth.net>  
To: schoon@amgt.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [145085] Re: How Would You Clean This Roller Inductor??  
Message-ID: <3E3059E8.D02FBFAB@bellsouth.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well Mark,

That is a BC375E antenna tuner, inductor 8-). They are great. DO NOT drop it, the end panels are fragile.

You can use "DIPIT" the silver cleaner and it will look like the picture or use as is, with no problem.

Jerry  
W3CDE

Mark Schoonover wrote:

>  
> Thanks for reading.  
>  
> I'm in the process of building a tuner. I have all the parts - EF  
> Johnson variable caps, and a real nice roller inductor. The roller inductor  
> has been sitting in a box for years, and has quite a buildup of tarnish.  
> Here what I have: [http://www.surplussales.com/ind-var\\_detail/7463338\\_d.html](http://www.surplussales.com/ind-var_detail/7463338_d.html)  
> . Mine has the complete turns counter on it. I don't want to damage it, but  
> would like to make it look and work like new. Any 'safe' ideas?? I've also  
> been looking at different tuner schematics, it seems the T is the best. Any  
> thoughts??  
>  
> Thanks and 72  
>  
> .mark

-----  
Date: Thu, 23 Jan 2003 16:14:28 -0500  
From: "Lee Mairs" <lmairs@direcway.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145086] Re: Weather - Was Re: REAL LIFE HAM RADIO  
Message-ID: <021b01c2c324\$6a28c150\$2202a8c0@J4>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is a well known scientific fact. Cold weather (especially when aided and abetted by rain and/or snow) have superb qualities for not letting the "mojo" out of the antenna prematurely.

Ain't nothing worse for working DX then a mojo-less antenna. Has something to do with keeping the conjugates from conjuggling...

73 de Lee  
KM4YY

----- Original Message -----

From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Wednesday, January 22, 2003 12:23 PM  
Subject: RE: Weather - Was Re: REAL LIFE HAM RADIO

> Saskatoon Saskatchewan today: -33 Celcius...They say antennas put up in  
> this temperature last longer and work better than the others...

>

> Brian.

>

> On Wed, 22 Jan 2003 Rudy.Pitte@americawest.com wrote:

>

> > If it'll warm your cockles any it'll be in the mid 70's here in the  
valley

> > of the sun, Chandler, Az.

> >

> > 73 de Rudy

> > "WW7AZ in the valley of the sun"

> >

> > -----Original Message-----

> > From: Mark Andrews

> > To: Low Power Amateur Radio Discussion

> > Sent: 1/22/03 8:05 AM

> > Subject: OT: Weather - Was Re: REAL LIFE HAM RADIO

> >

> > Y'all need to move someplace warmer. ( Just don't move here! :- )

> >

> > In all seriousness, this past Saturday morning when I got up it was +6F.

> > Pretty darn cold for this part of the country (Northern Alabama).

> > Yesterday

> > the high was +62F. It does get cold in the South it just doesn't stay

> > that  
> > way for long!  
> >  
> > Mark, KE4IOF  
> > -----  
> > Mark A. Andrews  
> >  
> > "You can't reason a person out of a position that the  
> > person wasn't reasoned into in the first place"  
> >  
> > ----- Original Message -----  
> > From: "David Hinerman" <WD8CIV@worldnet.att.net>  
> > To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
> > Sent: Wednesday, January 22, 2003 7:59 AM  
> > Subject: Re: REAL LIFE HAM RADIO  
> >  
> >  
> > > Tim,  
> > >  
> > > I thought we were having it tough in Rochester NY this morning with 6  
> > > degrees F, light variable winds, and 3-6 inches of new snow (on top of  
> > the  
> > > 10 we got yesterday).  
> > >  
> >  
>  
>  
> Brian Buydens  
> Veterinary Electronic Data Specialist  
> Computing Services, University of Saskatchewan  
> email: Brian.Buydens@usask.ca  
> http://duke.usask.ca/~buydens  
> VE5RDV  
>  
> -----  
> I am a proud citizen of "Soviet Canuckistan"  
>  
>  
>  
>  
>  
>  
>  
>  
>

-----  
Date: Thu, 23 Jan 2003 14:17:00 -0700 (MST)

From: "Karl F. Larsen" <k5di@zianet.com>  
To: qrp-1@lehigh.edu  
Subject: [145087] FOX: Bad Conditions again!  
Message-ID: <Pine.LNX.4.44.0301231411020.1259-100000@bucket.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I got another dire warning that conditions tonight during the  
Fox Hunt will be terrible! Here are the numbers:

SFI:130 A:18 frm 13 K:5 frm 2 (103 nT) 0000 23 Jan  
Frcst: SWX next 24h:minor: G1 R1  
Obs: SWX last 24h:minor: G1 R1

Flare: 6h hi:B8(2315Z Jan22) 24h hi:C9(0445Z Jan22)

The flux is fine at 130. The A is growing fast and was 18 this  
morning. The K which is good at 1 is now 5 or above. The G1 R1 refer to  
radio conditions that are effected by the solar flare.

The guys up north are hurt the most. But the noise level for all  
of us will be bad.

So at 0200 UTC today look for a esp level Fox signal.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

-----  
Date: Thu, 23 Jan 2003 15:25:20 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: <schoon@amgt.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [145088] Re: How Would You Clean This Roller Inductor??  
Message-ID: <010501c2c325\$f0536a40\$0201a8c0@fairviewtx.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've used 409 cleaner to get the dirt and grease off and then silver  
polish to restore the shine. Even if the inductor is just tinned and  
not plated, it can be cleaned and made to look better. I use Radio



Shack tuner cleaner spray on the moving parts and contacts of the caps and the inductors in my MFJ 989C tuners. A little Deoxit or similar goop - just the tiniest bit - on the roller shaft and roller itself seems to work well also.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----

From: "Mark Schoonover" <schoon@amgt.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, January 23, 2003 2:22 PM

Subject: How Would You Clean This Roller Inductor??

> Thanks for reading.

>

> I'm in the process of building a tuner. I have all the parts - EF

> Johnson variable caps, and a real nice roller inductor. The roller inductor

> has been sitting in a box for years, and has quite a buildup of tarnish.

> Here what I have:

[http://www.surplussales.com/ind-var\\_detail/7463338\\_d.html](http://www.surplussales.com/ind-var_detail/7463338_d.html)

> . Mine has the complete turns counter on it. I don't want to damage it, but

> would like to make it look and work like new. Any 'safe' ideas??

I've also

> been looking at different tuner schematics, it seems the T is the best. Any

> thoughts??

>

> Thanks and 72

>

> .mark

>

-----  
Date: Thu, 23 Jan 2003 16:28:01 -0500

From: "Franco, Nicholas J" <franco@bnl.gov>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>

Subject: [145089] RE: Trying 20m QRP WAS

Message-ID: <D869CC4782D3D41182CB0002B30A362B80AF9B@exchange01.bnl.gov>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Sorry about that - Callsign no longer tell the actual timezone.

Lunch time for me vary from 11:30 - 1:30 EST. Thanks for the replies.

Hope to work some of you on 20m.

73,  
Nick

--

Nicholas J. Franco <>> Brookhaven National Laboratory  
Sr. Applications Engineer Collider-Accelerator Department  
Tel: 631-344-5467 Fax: 631-344-2833 <mailto:franco@bnl.gov>

-----Original Message-----

From: Don Wines [<mailto:dwines@tyler.net>]  
Sent: Thursday, January 23, 2003 3:04 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Trying 20m QRP WAS

Nick wrote:

Snip...

> SO - I will operating during lunch times whenever I have a chance as K2BNL  
> on 20m.

Snip...

Nick,

What are your "lunch times" so we'll know when to listen.

72

Don, K5DW

[k5dw@arrl.net](mailto:k5dw@arrl.net)

QRP-L #2083 QRP-ARCI #10145 NETXQRP #3 EM22gm

Visit the NETXQRP Web Site at <http://www.netxqrp.org>

-----

Date: Thu, 23 Jan 2003 16:46:08 -0500  
From: "Russ Hines" <wb8zcc@one.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [145090] Re: Sheet Metal Brake Drawing?  
Message-ID: <005a01c2c328\$d6c220f0\$4307c00a@wb8zcc1>

L.B. Cebik had an article in QST, I believe, building a brake.

----- Original Message -----

From: "Tim, N9PUZ" <n9puz@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Thursday, January 23, 2003 12:41 AM  
Subject: Re: Sheet Metal Brake Drawing?

> On Wed, 22 Jan 2003 17:48:32 -0500, Steven Weber wrote:  
>  
> >[http://www.qsl.net/kd1jb/SHEET\\_METAL\\_BREAK.HTM](http://www.qsl.net/kd1jb/SHEET_METAL_BREAK.HTM)  
>  
> .. and check here for the pics at Steve's REAL web site...  
>  
> [http://www.qsl.net/kd1jv/SHEET\\_METAL\\_BREAK.HTM](http://www.qsl.net/kd1jv/SHEET_METAL_BREAK.HTM)  
>  
>  
>  
> Tim, N9PUZ  
> <http://www.qsl.net/n9puz>  
>

-----  
Date: Thu, 23 Jan 2003 16:50:51 -0500  
From: "Russ Hines" <wb8zcc@one.net>  
To: <radioham@gmx.co.uk>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [145091] Re: Radio Shack Realistic DX-302  
Message-ID: <006c01c2c329\$7f57a140\$4307c00a@wb8zcc1>

My favorite mod for that radio I lovingly call "Bury The Hatchet." The radio still doesn't work after the mod, but a whole lot of frustration is relieved after all the hard work getting it past the XYL.

----- Original Message -----

From: "Ray Goff" <radioham@gmx.co.uk>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Thursday, January 23, 2003 4:24 AM  
Subject: Radio Shack Realistic DX-302

> Last night was the local radio club's annual 'suprplus equipment (junk)  
> sale' and I came away with a DX-302 receiver. I managed to get it past the  
> XYL with relatively few comments and then powered it up. The outcome is  
> that, as expected, it does not work. The MHz selector seems to work, but  
> the  
> KHz tuning section does not register on the front panel frequency display.  
>  
> I did a quick web search feeling certain that I could find a schematic for  
> the rig, but no luck so far. Therefore the question, does anybody either  
> have a schematic they can scan and email me or a source on the web that I  
> can tap into.  
>  
> Any other mods/suggestions would be welcomed. If I can get it working I  
want  
> to pass it onto a 12 year old lad who is starting to show an interest in  
> radio. Failing that, the components in it are worth more than I paid for  
it,  
> but it seems a shame to strip it down before having a go at repairing it.  
>  
> Thanks in advance for any suggestions.  
>  
> 72/73  
>  
> Ray, g4fon  
> www.g4fon.co.uk  
>  
>  
>

-----  
Date: Thu, 23 Jan 2003 21:54:24 +0000  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: qrp-1@lehigh.edu  
Subject: [145092] Re: [Parts] Tiny Trove II  
Message-ID: <F129aPFJ3NM3rx5Hfz90001c780@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

OK, I am at my limit on requests for these parts so if you have not already

e-mailed me I won't be taking any more requests at the present time.

Also, while I believe that the total weight of parts in a standard (#10 or smaller) envelope should not exceed an ounce, the post office charges an extra \$0.12 for "nonmachinable" letters of one ounce weight or less. It is not clear that SMT tapes will cause this charge to apply but for those of you who have written to me but not already sent your \$1 and SASE, you may want to include the added postage for your own peace of mind.

Thanks and have fun.

Brad KG6IOE

Subject: [Parts] Tiny Trove II  
From: Brad Hernlem (alihernlem@hotmail.com)  
Date: Thu Jan 23 2003 - 11:25:08 EST

>Folks,

>In the spirit of Brian's recent SMT cap offer, I have likewise  
>prepared a small assortment of diminutive components, excess to my needs,  
>at an equally small price.

>For a dollar and a self-addressed stamped envelope, you get:

-----  
Add photos to your messages with MSN 8. Get 2 months FREE\*.  
<http://join.msn.com/?page=features/featuredemail>

-----  
Date: Thu, 23 Jan 2003 17:08:52 -0500  
From: "JB Crafts" <jbcraft@adelphia.net>  
To: <schoon@amgt.com>,  
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [145093] Re: How Would You Clean This Roller Inductor??  
Message-ID: <005d01c2c32c\$053daaa0\$1ad73218@lbrtoh.adelphia.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

silver plated? nothing... silver oxide conducts RF, unlike copper oxide...

but, if you like shiny, try tarn-x. I have never used Tarn-x, I do not know if it is exactly what you should use... I have used acetone, and I know now, that was not a good idea.

Bob

-----  
Date: Thu, 23 Jan 2003 22:13:20 +0000  
From: "Brad Hernlem" <alihernlem@hotmail.com>  
To: qrp-l@lehigh.edu  
Cc: n4xy@earthlink.net  
Subject: [145094] Re: Info Source  
Message-ID: <F121rMpARg2LG10kOng00006955@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Ed Tanton (n4xy@earthlink.net) states:

>While surfing around the 'net-when I should be busy elsewhere, I ran into a  
>really nice electronics company-and hence data >sheet-locator, ....

Another good one is [www.freetradezone.com](http://www.freetradezone.com)

Strange name for such a site but GREAT place to find datasheets on obsolete parts.

Brad KG6IOE

-----  
Add photos to your messages with MSN 8. Get 2 months FREE\*.  
<http://join.msn.com/?page=features/featuredemail>

-----  
Date: Thu, 23 Jan 2003 15:27:51 -0800  
From: "N4LGH" <n4lgh@waveguide.us>  
To: "QRP-L" <qrp-l@lehigh.edu>, <j.p.osburn@ieee.org>  
Subject: [145095] RE: PCB Printer  
Message-ID: <GNEOLGDJDJOPEALHJMKLCKECLDGAA.n4lgh@waveguide.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

It's nothing more than an ink-jet with specialized motor mechanism to deal with the CD.

Had one ...

Maybe you could set up a printer to print on copper? A lot of the ink-jet printers have set-ups to allow them to print on stiff or poster board, perhaps this is an option

Tracy N4GH

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of James P. Osburn, P.E.

Sent: Thursday, January 23, 2003 12:32 PM

To: Low Power Amateur Radio Discussion

Subject: PCB Printer

I just saw an ad for a printer that prints directly on a CDR. I don't have one and can't afford to buy one but if I had one I would want to try an experiment. I would cut out a chunk of PCB material that would fit through the machine, print a layout on it, and through it in the etchant. I wonder what would happen.

Jim, WD9EYB

-----  
Date: Thu, 23 Jan 2003 17:40:46 -0600

From: "George, W5YR" <w5yr@att.net>

To: <k5di@zianet.com>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [145096] Re: Bad Conditions again!

Message-ID: <018d01c2c338\$dba36a60\$0201a8c0@fairviewtx.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

The NE-TX Tornados will be there at 0130Z looking for a Truffle and checking out the band. That will tell us what is actually happening, not what was predicted hours ago. I agree that with the location of the Foxii tonight relative to North Texas, it will take some work.

But what's a foxhunt for, if not fun and hard work!

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

In the 57th year and it just keeps getting better!

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe

K2 #489 IC-765 #2349 IC-756 PRO #2121 IC-756 PRO2 #3235

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Thursday, January 23, 2003 3:17 PM

Subject: FOX: Bad Conditions again!

>

> I got another dire warning that conditions tonight during the

> Fox Hunt will be terrible! Here are the numbers:

-----  
Date: Thu, 23 Jan 2003 18:46:54 -0500

From: "AI2Q" <ai2q@adelphia.net>

To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>

Cc: <schoon@amgt.com>

Subject: [145097] RE: How Would You Clean This Roller Inductor??

Message-ID: <000201c2c339\$b5ec2720\$6401a8c0@hq.cmp.com>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Mark:

Don't worry too much about the tarnish; it will wear off as you use the inductor. However, you could lightly wipe the roller section with some fine steel wool, as you rotate the cylinder by hand. If you don't apply too much elbow grease, you won't damage the plating.

To keep it from tarnishing again put a few mothballs inside the enclosure with the coil.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687 .-.-.

-----Original Message-----



From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of  
Mark Schoonover  
Sent: Thursday, January 23, 2003 3:23 PM  
To: Low Power Amateur Radio Discussion  
Subject: How Would You Clean This Roller Inductor??

Thanks for reading.

I'm in the process of building a tuner. I have all the parts - EF  
Johnson variable caps, and a real nice roller inductor. The roller inductor  
has been sitting in a box for years, and has quite a buildup of tarnish.  
Here what I have: [http://www.surplussales.com/ind-var\\_detail/7463338\\_d.html](http://www.surplussales.com/ind-var_detail/7463338_d.html)  
. Mine has the complete turns counter on it. I don't want to damage it, but  
would like to make it look and work like new. Any 'safe' ideas?? I've also  
been looking at different tuner schematics, it seems the T is the best. Any  
thoughts??

Thanks and 72

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End of QRP-L Digest 2809  
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